

**Bowker, 1675**

**AN  
ALMANACK**

**For the Year of our Lord God,  
M D C LXXV.**

*Being the Third from Bissextile or Leap-Year.*

**CONTAINING**

The daily Motions of the Sun, Moon, Planets  
and *Fixed Stars*, their *Risings* and *Settings*, the *Aspects*  
of the *Planets*, Inclination of the *Air*, Time of the *Tides*,  
and whatsoever else is necessary to the compleating of a  
*Diary* or *Day-book*, fitting all mens occasions.

Calculated properly for the Meridian of *London*,  
but may generally serve all *ENGLAND*.

**BEING**

Furnished with necessary Rules, Tables and  
Directions, for the Accommodation and Use of

*Merchants,* } *Mariners,*  
*Travellers,* } *Mathematicians,*  
*Tradesmen,* } *Astrologers, &c.*

**By JAMES BOWKER, Philomath.**

**LONDON,** Printed by *Andrew Clark*, for  
the Company of Stationers. 1675.

# Common Notes and Moveable Feasts for this Year 1675 according to the Account

Julian, or English.		Gregorian, or Foreign.
	The Golden Number	
	The Cycle of the Sun	
	Domical Letter	
	The Epact	
February 14	Shrove-Sunday	24 February
April 4	Easter-day	14 April
May 9	Rogation Sunday	19 May
May 13	Ascension day	23 May
May 23	Whitsunday	2 June
May 30	Trinity-Sunday	9 June
November 28	Advent Sunday	1 December

## No Marriage without a Licence.

The beginning of the year till January 14.  
 From February 1. to April 12.  
 May 8. till May 31.  
 November 27. till January 14. 1676.

**VENUS** is an Evening Star till February 1. and then he becomes our Morning Star, and so continues till Nov. 10. and is an Evening Star from that time to the years end.

## ADVERTISEMENT.

A New Size of **GLOBES** of about 15 inches Diameter, made according to the more accurate Observations and Discoveries of our modern Astronomers and Geographers, much differing from all that were ever yet extant. Made and sold by R. Morden at the Atlas in Cornhill near the Royal Exchange. And there is now published a new Treatise of the Use of the said Globes, there sold. He makes all sorts of Spheres & Globes, and sells all sorts of Maps both general and particular, Sea-Plats for several Navigations, and other Astronomical and Geometrical Schemes and Instruments.

# The Beginning, Ending and Returns of the Terms

Return days, or days of Effoin.	Days of Except.	Returna Brevium	Days of Appearance.
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*Hilary-Term begins January 12, and ends Feb. 12.*

Octob. Hil.	Janua. 21	21	23
Quind. Mill.	Jan. 28	29	30
Craft. Purif.	Feb. 3	5	6
Octob. Purif.	Feb. 10	12	12

*Easter-Term begins April 27, ends May 17.*

Quind Pasch.	April 19	19	21
Tref. Pasch.	April 26	27	28
Mens. Pasch.	May 3	4	6
Quind. Pasch.	May 10	11	12
Craft. Ascens.	May 14	15	17

*Trinity-Term begins June 4, and ends June 23.*

Craft. Trin.	May 31	Jun. 1	4
Octob. Trin.	June 7	8	10
Quind. Trin.	June 14	15	17
Tref. Trin.	June 21	22	23

*Michaelmas-Term begins Octob. 23, ends Nov. 23.*

Tref. Mich.	Octob. 20	21	23
Mens. Mich.	Octob. 27	28	30
Craft. Anim.	Nov. 3	4	6
Craft. Mart.	Nov. 12	13	16
Octob. Mart.	Nov. 19	20	23
Quind. Mart.	Nov. 26	27	28

The Exchequer opens 8 days before any Term begins, except Trinity, before which it opens but four days.

*Gjole goes to Law for Couzen Ganders Lands*

*And Fox the Lawyer takes the Cause in hand :*

*Who (for his Counsel) taketh Fees of either,*

*And in the end leaves neither worth a Feather.*

*Now comes the Term, and Judgment must proceed,*

*Fools they set out, and Beggars they agreed.*

**A Table shewing the time of High Water in all the Ports below mentioned.**

Age.	Hours and Minutes to be added.		The Names of the Ports.	Hours and Minutes.	
	Ho.	Min.		Ho.	Min.
1	0	49	Queenborough, Southampton, Portsmouth,	0	0
2	1	38	Rochester, Maldon, Blacktail,	0	45
3	2	26	Gravesend, Dover, Blackness, Silly,	1	30
4	3	15	Dundee, St. Andrews, Lisbon, Lucas,	2	15
5	4	3	London, Tinnmouth, Amsterdam, Rotterdam,	3	0
6	4	53	Barwick, Flushing, Flamborough,	3	45
7	4	41	Baltamoor, Corke, Severn, Callice,	4	30
8	5	30	Falmouth, Humber, New-Castle,	5	15
9	5	19	Phimouth, Hull, Lin, St. Davids,	6	0
10	6	8	Bristol, Starr-point, Waterford,	6	45
11	6	56	Milford, Bridgwater, Lands-end,	7	30
12	9	45	Portland, Hartfew, Dublin,	8	15
13	10	34	Pool, Isle of Man, Dunbar, Diepe,	9	0
14	11	23	Needles, Orford, South and N. Forelands,	9	45
15	12	11	Yarmouth, Dover, Harwich,	10	30
16	0	0	Rie, Winchelsey, Colshot,	11	15

**The use of these Tide-Tables.**

IN the Table following you have the Days age every day of the year, which being known, seek the Moons age in this Table, and see what hours and minutes stand against it, those hours and minutes being added to the hours and minutes which stand against the name of the place you would know the time of High-water at, will give you the time of high water at that place.

**Example.**

If you would know what time it will be High-water at Gravesend, upon the 28 of January, look in the following Table and against the 28 of January, you shall find the Moon is 13 days old: wherefore find 13 days in this Table under (C Age) and against it you shall find 10 h. 34 m. which being added to 1 h. 30 m. (the hours and minutes standing against Gravesend) the sum is 12 h. 4 m. at which time it will be high water at Gravesend on the 28 of January afternoon. But if the hours and minutes added together exceed 12 hours, you must cast away 12 hours, and the time of high water will remain. So on the 24 of January, the Moon being 9 days old, the hours and min. against 9 days old are 7 h. 19 min. which added to 10 h. 30 m. (the hours and min. standing against Dover) make 17 h. 49 m. from which take 12 h. and there remains, 5 h. 49 m. at which time, it will be high water at Dover the 24 of January.



# A Table of the Moons Age

Month-Day	January	February	March	April	May	June	July	August	September	October	November	December
1	16	16	16	16	16	17	18	19	20	21	22	23
2	17	17	17	17	17	18	19	20	21	22	23	24
3	18	18	18	18	18	19	20	21	22	23	24	25
4	19	19	19	19	19	20	21	22	23	24	25	26
5	20	20	20	20	20	21	22	23	24	25	26	27
6	21	21	21	21	21	22	23	24	25	26	27	28
7	22	22	22	22	22	23	24	25	26	27	28	29
8	23	23	23	23	23	24	25	26	27	28	29	30
9	24	24	24	24	24	25	26	27	28	29	30	31
10	25	25	25	25	25	26	27	28	29	30	31	
11	26	26	26	26	26	27	28	29	30	31		
12	27	27	27	27	27	28	29	30	31			
13	28	28	28	28	28	29	30	31				
14	29	29	29	29	29	30	31					
15	30	30	30	30	30	31						
16	31	31	31	31	31							
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

*A brief Chronology of some memorable things since  
the Conquest.*

Since	England was Conquered by Duke William	639
	London Bridge was built of Stone	466
	Guns were invented	297
	Printing of Books was invented	235
	Henry the Eighth Conquered Bullaigh	1532
	Coaches were first used in England	120
	Pauls Steeple was Fired by Lightning	114
	The Massacre in France	103
	Tilbury Camp	87
	The Gun-Powder Treason Novemb. 52	70
	King Charles the 1 was Born	75
	1657 died of the Plague in London	72
	The Great Frost	68
	Prince Henry died	64
	The Great Snow	59
	The Blazing Star in November, 1618	57
	Sir Walter Rawleigh was beheaded	57
	Queen Anne died	56
	Prince Charles went to Spain	53
	The Fall at Black Friars	52
	The Cruelty committed at Amboyna	51
	1615 died of the Plague in London	50
	The Voyage to the Isle of Rhee	48
	The Duke of Buckingham was Stabb'd	47
	King Charles the II. was Born, May 29	45
	St. Pauls Cathedral began to be repaired	42
	The Hollanders met the Spaniards in the Downs and Fought them	36
	The Long Parliament began, Novemb. 3.	35
	The Rebellion in Ireland brake out	34
	Edge-Hill Fight	33
	Bramford Fight	32
	Newbury first Battel, Sept. 20.	31
	The Scotch Army of 20000. entered England	38
	Marston Moor Fight	31
	The Bishop of Canterbury was beheaded	30

*Newbery* second Fight, *Octob. 28.* 30  
*Naseby* Fight, *June 24.* 30  
 The Scots were Roused in *Lancashire* 27  
 King *Charles* the I. was murdered 27  
 Dr. *Hamilton*, L. *Capel*, and M. of *Holland* beheaded 27  
 Colchester was taken 27  
 Worcester Fight, *Septemb. 3.* 24  
 The Long Parliament dissolved by O. C. 22  
 The Great Fight at Sea between the *English* and 22  
 the *Dutch*, and the *Dutch* beaten, *June 23.* 22  
 Usurping *Oliv. Cromwell* took the Government 21  
*Dunkirk* was delivered to the *English* 17  
 Sir *Hen. Wallingbr.* and Dr. *Hewet* beheaded 17  
 Usurping *Cromwell* died, *Sept. 3.* 16  
 Gen. *Moor* marched to *London* 16  
 He brought the Secluded Members to the House 15  
 The Parliament began, *April 25.* 15  
 King *Charles* the II. arrived in *London*, *May 29.* 15  
*Harrison* and the rest of the *Regicides* were Executed at *Charing-Cross* 15  
 King *Charles* the II. was Crowned, *April 23.* 15  
 Three Comets appeared 10  
 The first great Sea-Fight between the *Dutch* and 10  
*English*, wherein the *Dutch* were beaten, *May 10*  
 22 Ships taken 10  
 97351. died in one year in *London*, whereof of the 10  
 Plague 68586 10  
 The second Fight with the *Dutch*, *June 14.* 9  
 The third Fight with the *Dutch* 9  
 There was about 13200: Houses burnt in *London*, 9  
*September 2, 3, and 4 days* 9  
 The Treaty with the *Dutch* 7  
 Two Whales came up the *Thames*, one to *Greenwich* 7  
 end, the other to *Greenwich*, *August 9.* 7  
*London* after its utter ruine by fire rebuildod 4  
 The Camp at *Black-Heath* 2  
 Peace w. *Holland*, proclaimed in *London*, *Feb. 18. 1673.* 2

# January hath xxxi. days.

- Full Moon the 1 day, 21 m. after 7 at night.
- Last quarter the 8. day, 13 min. after 6 at night.
- New Moon the 15. day, at 36 min. past 9 at night.
- First quarter the 24. day, 34 min. before 1 in the morn.
- Full Moon the 31. day, at 9 in the morning.

Beware of Cold, & bleed. Or bathe take heed.  
A good way to keep the Month the Back will need.

1	Circumcisi	21	3	17	52	0	22	11	Y	Eclipsed
2	Adlar	22	33	1	28	Y	10	10	Y	Frost
3	Meliorus	23	34	15	50	Y	18	8	Y	Snow and
4	Croniacus	24	36	0	15	Y	26	17	Y	cloudy
5	Edward K.	25	39	14	47	Y	1	3	Y	weather, with
6	Epiphany	26	38	29	13	Y	22	24	Y	Easterly wind,
7	Ced B Len	27	39	13	35	Y	11	6	Y	Retrograde
8	William	28	4	27	44	Y	19	40	Y	Variable
9	Adrian	29	42	11	41	Y	26	6	Y	Variable
10	1 aft Epip	30	43	25	28	Y	6	57	Y	Variable
11	Hyginus	1	44	8	59	Y	22	37	Y	Variable
12	Benedict	2	45	22	21	Y	12	22	Y	with Westerly
13	Hilary B.C	4	46	5	59	Y	21	31	Y	Wind and
14	Vedding, in	5	47	18	27	Y	25	3	Y	some Rain,
15	Maurice	6	48	1	10	Y	23	10	Y	some Rain,
16	Marcellus	7	49	13	44	Y	22	54	Y	some Rain,
17	2 aft Epip	8	50	26	1	Y	12	54	Y	some Rain,
18	Chair	9	51	8	11	Y	23	12	Y	some Rain,
19	Woflan	10	52	20	11	Y	23	11	Y	Cold much
20	Fab & Sch	11	53	2	9	Y	19	57	Y	abated and
21	Agnes V.	12	54	14	0	Y	23	13	Y	some fleety
22	Vincent	13	55	25	53	Y	13	44	Y	some Rain
23	Janbergo	14	56	2	51	Y	25	11	Y	some Rain
24	3 aft Epip	15	57	19	56	Y	20	14	Y	with
25	Con S. Rami	16	58	2	11	Y	27	10	Y	flying clouds
26	Polyzarpus	17	59	14	51	Y	23	24	Y	and mists.
27	J. Chrylost	18	59	27	57	Y	14	32	Y	some Rain
28	Agnes Ap.	19	0	11	26	Y	27	17	Y	Wind & rain
29	Gildas	20	1	25	2	Y	17	17	Y	and
30	K. Chas. I. L.	21	12	9	1	Y	4	44	Y	probably some
31	Septuages	22	13	2	1	Y	13	8	Y	Snow.

Moon rises.		Moon is South.		Moon sets.	
D		Ob. 2 m.		Moon rises.	
JANU- ARY.		3 h 56 m. 3 after.		Moon rises.	
1	23	58	3	41	57
2	24	59	4	42	58
3	25	60	5	43	59
4	26	61	6	44	60
5	27	62	7	45	61
6	28	63	8	46	62
7	29	64	9	47	63
8	30	65	10	48	64
9	31	66	11	49	65
10	1	67	12	50	66
11	2	68	1	51	67
12	3	69	2	52	68
13	4	70	3	53	69
14	5	71	4	54	70
15	6	72	5	55	71
16	7	73	6	56	72
17	8	74	7	57	73
18	9	75	8	58	74
19	10	76	9	59	75
20	11	77	10	60	76
21	12	78	11	61	77
22	1	79	12	62	78
23	2	80	1	63	79
24	3	81	2	64	80
25	4	82	3	65	81
26	5	83	4	66	82
27	6	84	5	67	83
28	7	85	6	68	84
29	8	86	7	69	85
30	9	87	8	70	86
31	10	88	9	71	87
32	11	89	10	72	88
33	12	90	11	73	89
34	1	91	12	74	90
35	2	92	1	75	91
36	3	93	2	76	92
37	4	94	3	77	93
38	5	95	4	78	94
39	6	96	5	79	95
40	7	97	6	80	96
41	8	98	7	81	97
42	9	99	8	82	98
43	10	100	9	83	99
44	11	101	10	84	100
45	12	102	11	85	101
46	1	103	12	86	102
47	2	104	1	87	103
48	3	105	2	88	104
49	4	106	3	89	105
50	5	107	4	90	106
51	6	108	5	91	107
52	7	109	6	92	108
53	8	110	7	93	109
54	9	111	8	94	110
55	10	112	9	95	111
56	11	113	10	96	112
57	12	114	11	97	113
58	1	115	12	98	114
59	2	116	1	99	115
60	3	117	2	100	116
61	4	118	3	101	117
62	5	119	4	102	118
63	6	120	5	103	119
64	7	121	6	104	120
65	8	122	7	105	121
66	9	123	8	106	122
67	10	124	9	107	123
68	11	125	10	108	124
69	12	126	11	109	125
70	1	127	12	110	126
71	2	128	1	111	127
72	3	129	2	112	128
73	4	130	3	113	129
74	5	131	4	114	130
75	6	132	5	115	131
76	7	133	6	116	132
77	8	134	7	117	133
78	9	135	8	118	134
79	10	136	9	119	135
80	11	137	10	120	136
81	12	138	11	121	137
82	1	139	12	122	138
83	2	140	1	123	139
84	3	141	2	124	140
85	4	142	3	125	141
86	5	143	4	126	142
87	6	144	5	127	143
88	7	145	6	128	144
89	8	146	7	129	145
90	9	147	8	130	146
91	10	148	9	131	147
92	11	149	10	132	148
93	12	150	11	133	149
94	1	151	12	134	150
95	2	152	1	135	151
96	3	153	2	136	152
97	4	154	3	137	153
98	5	155	4	138	154
99	6	156	5	139	155
100	7	157	6	140	156

Day 8 hours long.

Day breaks 5 h. 50 m. 15 m.  
Twilight ends 6 h. 35 m.

Day lengthened 40 m. 10 m.  
Sun rises SE. by E. and  
sets SW. by W.  
Mercury may be seen in the  
Mornings early.

Day 8 hours and a half long.

South arm of Crab So. at 12.

Day breaks 5 h. 31 m. 15 m.  
Twilight ends 6 h. 28 m. 15 m.

Heart of Hydra South at 12.

Day 9 hours long.

The G Dog rises astronomically.

Day lengthened 1 h. 26 m. 15 m.

Day breaks 5 h. 17 m.  
Twilight ends 6 h. 43 m.

# February hath xxviii. days.

- ☾ Last quarter the 6. day, at 11 at night.
- ☾ New Moon the 14 day, 4 min. past 3 afternoon.
- ☾ First quarter the 22 day, at 7 at night.

*Warm Oloaths this Month are good, old Eack no less,  
Always provided thou avoid excess.*

Mo. Da.	W. C. D. I.	Fixt & mo- vable Feasts and Terms.	Suns Place.		Moons Place.		The Planets Places.	Plan. Aspects Inclination of the Airs &c.
			D.	M.	D.	M.		
1	d	Wells. eve.	23	3	9	28	♂ 15 17	Little alte-
2	e	Candlemas	24	4	24	19	♂ 29 30	ration of the
3	f	Blake B.M.	25	4	9	15	♀ 14 15	air, till the
4	a	Gilbert	26	5	23	56	♀ 12 30	☾ ☿ 6 day
5	a	Agatha V.	27	5	8	19	♂ 24 23	☿ ☿ then
6	b	Dorothy V.	28	6	22	20	♀ 15 38	cloudy and
7	c	Scargelina	29	6	5	59	♂ 1 47	☿ ☿ the
8	d	Iselhide A	30	7	19	20	♀ 11 58	☿ ☿ Equ
9	e	Apollonia	1	7	2	23	♀ 20 57	wind will
10	f	Wilfred	2	8	15	11	♂ 24 51	blow.
11	g	William	3	8	27	47	♀ 16 36	Cold re-
12	a	Term ends	4	8	10	11	♂ 4 10	☿ ☿ ☿
13	b	Ermenild	5	9	22	28	♀ 10 40	☿ ☿ ☿
14	c	Shrove Sun	6	9	4	37	♀ 29 39	Valentine
15	d	Faustinus	7	9	16	41	♂ 25 20	☿ ☿ ☿
16	e	Tancōne	8	9	28	40	♀ 17 11	great winds,
17	f	Ash-Wednes.	9	10	10	34	♂ 6 36	Venus direct.
18	g	Simeon	10	10	22	28	♀ 10 27	☿ ☿ ☿
19	a	Acca B.	11	10	4	23	♀ 8 47	☿ ☿ ☿
20	b	Mildreda	12	10	16	23	♂ 25 50	☿ ☿ ☿
21	c	Quadrages	13	10	28	28	♀ 17 42	☿ ☿ ☿
22	d	Chair Pet.	14	10	10	45	♂ 9 7	☿ ☿ ☿
23	e	Milburg V.	15	10	23	20	♀ 11 17	☿ ☿ ☿
24	f	S. Marthian	16	10	5	15	♀ 18 19	☿ ☿ ☿
25	g	Winter we.	17	10	19	36	♂ 26 22	☿ ☿ ☿
26	a	John B.	18	10	3	26	♀ 18 9	☿ ☿ ☿
27	b	Oswald B.	19	10	17	46	♂ 11 41	☿ ☿ ☿
28	c	Reminisc.	20	11	2	33	♀ 12 47	variable.

	Mean time.	Mean is South.	Mean is.
	1 5b. 58m. aftern.	ob. 40m.	
	5 0 43 } morn.	5 5 } mor.	
	11 5 27 } morn.	9 32 } mor.	
	16 18 } morn.	1 17 } morn.	
	21 21 } morn.	4 54 } aftern.	
	26 26 } morn.	9 24 } aftern.	
			7 13 } after noon
			9 36 } noon
			11 11 } noon

B.H.	M.H.	M.H.	M.	Incr. & Decr. of the days, with Fovoid	Mean is South.	Mean is.
1 7	17 4	43 3	5 23	Sun rises ESE, sets WSW.	1 1	1 1
2 7	16 4	44 4	43	Day 9 hours and half long.	1 2	1 2
3 7	14 4	45 5	35		1 3	1 3
4 7	13 4	47 6	26		1 4	1 4
5 7	11 4	49 7	18		1 5	1 5
6 7	10 4	50 8	10	Day lengthened 1 h. 10 m.	1 6	1 6
7 7	8 4	52 9	2		1 7	1 7
8 7	6 4	54 9	53		1 8	1 8
9 7	4 4	56 10	45	Day breaks at 5 morning.	1 9	1 9
10 7	2 4	58 11	37	Day 12 hours long.	1 10	1 10
11 6	59 5	12 1	28	Twilight ends at 7 at night.	1 11	1 11
12 6	58 5	2 1	20		1 12	1 12
13 6	56 5	4 2	11		1 13	1 13
14 6	55 5	5 3	0		1 14	1 14
15 6	55 5	6 3	48	Day lengthened 2 h. 34 m.	1 15	1 15
16 6	53 5	7 4	36		1 16	1 16
17 6	51 5	8 5	24	This Lent let's fast, watch, pray	1 17	1 17
18 6	49 5	11 6	17	and Sonnets sing.	1 18	1 18
19 6	46 5	14 7	0	Day 14 hours and half long.	1 19	1 19
20 6	44 5	16 7	48		1 20	1 20
21 6	42 5	18 8	36	10) Sun rises E. b. S. sets W. b. S.	1 21	1 21
22 6	40 5	20 9	24	Web heart and voice unto our	1 22	1 22
23 6	38 5	22 10	17	beavently King.	1 23	1 23
24 6	35 5	25 11	0	Day breaks at 4 h. 30 m.	1 24	1 24
25 6	32 5	28 11	48	Twilight ends 7 h. 30 m.	1 25	1 25
26 6	30 5	30 12	36	Day 14 hours long.	1 26	1 26
27 6	27 5	33 1	24		1 27	1 27
28 6	24 5	36 2	12		1 28	1 28

# March hath xxxi. days.

- Full Moon the 1. day 4 7 min. after 5 at night.
- Last quarter the 8. day, 53 min. past 8 in the morn.
- New Moon the 16. day, 50 min. past 8 in the morning.
- First quarter the 24. day, half an hour after 9 in the morn.
- Full Moon the 1st day, near 2 in the morn.

*Thy blood afresh begins to increase again,  
Take, blood and purge, thy Body to maintain.*

1	David	21	9	13	41	23	8	Variable
2	Chad	22	9	2	58	27	0	P P
3	Wenlock	23	9	18	14	18	32	ind un.
4	Lucius P.M	24	8	3	17	14	18	P P
5	Wilgife	25	8	17	57	15	5	stant weather
6	Frideline	26	7	2	12	7	56	to the 10. day
7	Oculi	27	7	15	57	27	30	P V
8	Perpetua V	28	7	19	17	18	50	P P
9	40 Martyrs	29	6	12	13	16	57	L. Capel, S.
10	Alexander	30	5	24	52	18	1	B beaded.
11	Oswin K M	1	5	7	15	17	1	A good tem
12	Gregory P.	2	4	19	37	28	6	P P
13	Vigin Mon	3	4	1	33	19	5	P P
14	Latare	4	3	13	33	12	30	perature of
15	Aristobulus	5	2	25	30	21	23	the air, but
16	Arede Ab.	6	1	7	27	24	29	windy
17	Patrick BC	7	1	19	22	28	42	P P
18	Edward K.	8	0	1	19	19	14	P P
19	Joseph C.	8	5	9	13	22	22	Cloudy
20	Jochin	9	5	8	15	25	14	P P
21	Judica	10	5	7	11	29	31	remiss
22	Benedictus	11	5	6	19	29	19	P P and
23	Egbert K.	12	5	5	2	19	20	P P cold
24	Lanfrank	13	5	4	15	25	8	fling
25	Lady Day	14	5	3	18	29	23	Clouds
26	Will. of N	15	5	2	12	1	46	P bringing
27	Archibald	16	5	0	26	29	57	P P
28	Palma-Sund	17	4	9	10	19	20	Rain
29	Baldred C.	18	4	8	26	27	56	P Retrograde
30	Patrone B.	19	4	7	11	3	48	Cold Rain
31	Adel'm	20	4	5	26	0	56	P P



Moon rises.		Moon is South.		Moon sets.	
1b. 30 m. aftern.	11h. 5 m. aftern.	4 31 } mor-	6 12 morn		
24 } morn.	8 43 } ning.	0 7 } after-	11 49 aftern		
25 }	0 3 } noon	3 48 }	40 morn.		
26 }	8 9 }				
27 }					
28 }					
29 }					
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# April hath xxx. days.

- Last quarter the 6 day, 34 min. past 10 at night.
- New Moon the 15. day, half an hour past 1 in morn.
- First quarter the 22. day, 11 min. after 8 at night.
- Full Moon the 29. day, 12 min. after 11 before noon.

If thou intendst to Purge or Bath or Bleed,  
Of Learn'd Physicians Counsel thou hast need.

1	g	Conv. Ma.	21	Y	44	11	M	48	b	0	35	♂	Uncertain	
2	a	Mary Ag.	22	43	26	4	Y	19	15	♂	♂	but good		
3	t	Richardus	23	41	11	♂	7	♂	0	44	♂	springing		
4	♂	Easter day	24	40	25	4	Y	28	28	♂	♂	♂	♂	wea-
5	♂	Martian	25	38	8	Y	25	♂	28	14	♂	♂	♂	ther
6	♂	Etchelwold	26	36	21	29	♂	1	13	♂	♂	♂	♂	be-
7	♂	Sigene	27	35	4	♂	5	Y	19	6	♂	♂	♂	gins
8	♂	Dasian C.	28	34	16	24	♂	3	34	♂	♂	the Moneth		
9	a	Frichstan B	29	32	28	3	Y	13	18	♂	♂	10) ♂ ♀		
10	b	Eschillus	30	30	10	♂	30	♂	24	44	Y	♂	♂	♂
11	♂	Dominica	1	29	22	27	♂	1	52	♂	♂	Low Sunday		
12	t	Weddin.	2	27	4	Y	21	Y	18	52	♂	♂	h Oriental	
13	e	Apollin	3	25	16	15	♂	6	26	♂	♂	fair and		
14	t	Hermeneg.	4	23	28	30	♂	18	18	♂	♂	♂	♂	♂
15	g	Fiburtius	5	21	10	♂	16	♂	21	58	Y	♂	♂	♂
16	a	Trans. Osw	6	20	22	22	♂	2	30	♂	♂	emperate		
17	b	Transl. Alb.	7	18	4	II	35	Y	18	35	♂	♂	white	
18	♂	Misericord	8	16	16	55	♂	9	19	♂	♂	♂	♂	♂
19	b	Alphige	9	14	29	25	♂	23	25	♂	♂	disperfed		
20	♂	Hadwal K	10	12	12	♂	6	♂	20	54	Y	♂	♂	♂
21	♂	Terma beg.	11	9	25	♂	♂	♂	3	9	♂	♂	♂	♂
22	♂	Joer P. M.	12	8	8	♂	14	Y	18	12	♂	♂	Clouds and	
23	♂	St. George	13	6	21	47	♂	12	13	♂	♂	Showers of		
24	t	Melinus B.	14	4	5	♂	45	♂	28	39	♂	♂	Hail.	
25	♂	S. Mark Ev	15	2	20	7	♂	22	5	Y	♂	Jubilare		
26	b	Clerus	15	59	4	♂	50	♂	3	47	♂	♂	♂	♂
27	e	Walburg V	16	57	19	15	Y	17	43	♂	♂	♂	♂	♂
28	♂	Vikalis M.	17	55	4	♂	57	♂	15	8	♂	♂	♂	sonabl
29	g	Peter Marr.	18	53	20	2	♂	3	59	Y	♂	weather ends		
30	a	Katharine	19	52	4	♂	54	♂	24	48	Y	♂	the moneth.	

Moon rises.		Moon is South.		Moon sets.	
8h. 15m. attern.	oh. 54m	5 38 } morn.	6. 18	18 aftern.	morn.
1 40 } morn.	9 28 }	0 40 }	4 45 }	5 2 }	18 }
1 44 }	9 28 }	4 45 }	9 28 }	5 2 }	18 }
16	21	26			
15	206	403	48	Day breaks 2 h. 57 m.	
15	186	424	36	Twilight ends 9 h. 3 m.	
15	166	445	24	Day 13 hours and half long.	
15	146	466	12	This fourth day keep thee to-	
15	126	487	0	by 3 praise him still,	
15	106	507	48	That set us free from Satan,	
15	76	538	36	Sin and Hell.	
15	46	569	24		
15	26	5810	12	Day 14 hours long.	
105	07	611	0		
14	587	21148	48	Day lengthned 6 h. 32 min.	
14	577	312	36		
13	557	51	24	Day breaks 2 h. 25 m.	
14	5537	72	12	Twilight ends 9 h. 35 m.	
15	527	83	0	Sun rises ENE. sets WNW.	
16	507	103	52		
17	487	124	40	Day 16 hours and half long.	
14	467	145	35		
19	447	166	26		
20	427	187	18		
21	407	208	10		
22	397	219	2	The 7 stars rise Cosmically.	
23	377	239	53		
24	357	2510	45	Day breaks 1 h. 51 m.	
24	337	2711	37	Twilight ends 10 h. 9 m.	
26	317	2912	28		
27	297	311	20	Day 15 hours long.	
28	277	332	11	The North Balance S. at 12	
29	257	353	0		
30	237	373	48	Day lengthned 7 h. 40 m.	

# May hath xxxi. days.

- 1 Last quarter the 6. day, a quarter past 1 afternoon.
- 2 New Moon the 14. day, 27 m. past 4 after noon.
- 3 First quarter the 22. day, 21 min. after 2 in the morn.
- 4 Full Moon the 28 day, 18 min past 6 at night.

*Sweet Morning walks and Sage the Minds may please  
Of them whose Bodies are in health and ease.*

1	b	S. Phil. & J	20	8	48	19	22	24	25	8	Heat and
2	c	Cantate	21	46	3	19	24	17	17	8	Thunder
3	b	Iov. Crucis	22	44	16	57	18	4	5	8	8
4	c	Monica M.	23	41	0	2	9	24	1	8	8
5	f	Algiu Q	24	39	12	43	29	1	7	White clouds	
6	g	John P. Lar	25	36	25	4	5	2	8	bringing some	
7	a	John Bever	26	34	7	20	16	45	1	8	cool
8	b	Wedd. our	27	32	19	9	21	1	5	Showers,	
9	c	Rogar. Sun	28	29	1	7	2	14	53	Wind,	
10	b	Epimachus	29	27	12	55	4	35	8	8	8
11	c	Mamertius	0	24	14	51	5	38	8	8	8
12	f	Pancratius	1	21	6	50	16	10	1	8	8
13	g	Ascension	2	19	18	58	23	58	5	8	8
14	a	Boniface	3	16	1	14	20	26	7	Hail and	
15	b	Dympna V	4	14	13	39	11	18	8	8	8
16	c	Exaudi.	5	11	26	15	6	14	8	Thunder	
17	b	Term ends	6	9	9	5	15	34	1	8	8
18	c	Sewald B.	7	6	21	2	26	56	5	8	8
19	f	Pudentian.	8	3	5	10	26	2	7	Very hot	
20	g	Ethelbert	9	1	18	32	19	4	8	with flashes	
21	a	Helen Q.	9	58	1	10	6	49	8	of Lightning.	
22	b	Adelmus	10	55	16	2	14	47	1	8	8
23	c	Whitfund.	11	52	0	11	29	55	5	Sudden	
24	b	Brandinus	12	50	14	35	1	41	8	Showers	
25	c	Urban PM	13	47	29	11	27	51	8	8	8
26	f	Ember we.	14	44	13	54	7	23	8	8	8
27	g	Vcn. Beda	15	41	28	35	14	18	1	8	8
28	a	Jonas Ab.	16	39	13	8	55	51	8	8	8
29	b	K. Chay II. r	17	36	27	28	27	22	8	8	8
30	c	Trin. Sund.	18	33	11	23	7	40	11	months end.	
31	b	Weddin. in	19	30	24	50					

Moon Rises		Moon Sets	
b.	m.	b.	m.
11	9	1	40
12	11	2	33
13	13	3	26
14	15	4	19
15	17	5	12
16	19	6	5
17	21	7	0
18	23	8	0
19	25	9	0
20	27	10	0
21	29	11	0
22	31	12	0
23	33	1	0
24	35	2	0
25	37	3	0
26	39	4	0
27	41	5	0
28	43	6	0
29	45	7	0
30	47	8	0
31	49	9	0
32	51	10	0
33	53	11	0
34	55	12	0
35	57	1	0
36	59	2	0
37	61	3	0
38	63	4	0
39	65	5	0
40	67	6	0
41	69	7	0
42	71	8	0
43	73	9	0
44	75	10	0
45	77	11	0
46	79	12	0
47	81	1	0
48	83	2	0
49	85	3	0
50	87	4	0
51	89	5	0
52	91	6	0
53	93	7	0
54	95	8	0
55	97	9	0
56	99	10	0
57	101	11	0
58	103	12	0
59	105	1	0
60	107	2	0
61	109	3	0
62	111	4	0
63	113	5	0
64	115	6	0
65	117	7	0
66	119	8	0
67	121	9	0
68	123	10	0
69	125	11	0
70	127	12	0
71	129	1	0
72	131	2	0
73	133	3	0
74	135	4	0
75	137	5	0
76	139	6	0
77	141	7	0
78	143	8	0
79	145	9	0
80	147	10	0
81	149	11	0
82	151	12	0
83	153	1	0
84	155	2	0
85	157	3	0
86	159	4	0
87	161	5	0
88	163	6	0
89	165	7	0
90	167	8	0
91	169	9	0
92	171	10	0
93	173	11	0
94	175	12	0
95	177	1	0
96	179	2	0
97	181	3	0
98	183	4	0
99	185	5	0
100	187	6	0

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# June hath XXX' days

- Left Quarter the 5 day, 21 min. after 5 in the morning.
- New Moon the 13 day, or a Quarter after 5 in the mor.
- First Quarter the 20 day, 10 min. before 8 in the morn.
- Full Moon the 27 day, halfe an houre after 3 in the mo

Drinks new or sweet, hot Spice, I warn thee flie  
The sports of Venus and phlebotomy.

1	e	Panphilus	20	27	8	5	h	8	2	☾	☐	h	☾	great
2	f	Marcellinus	21	24	20	50	u	13	34	☾	☐	h	☾	great
3	g	Corpus Christi	22	21	3	16	☾	6	32	☾	☐	h	☾	wine
4	a	John Baptist	23	15	15	25	☾	14	14	☾	☐	h	☾	with drough
5	b	Boniface B. M.	24	16	27	23	☾	20	26	☾	☐	h	☾	and thundr
6	c		25	13	9	15	h	8	33	☾	☐	h	☾	
7	d	Paulus	26	10	21	8	u	12	58	☾	☐	h	☾	hail or rain
8	e	William	27	7	3	☾	☾	0	33	☾	☐	h	☾	
9	f	Pelicianus	28	4	15	5	☾	20	1	☾	☐	h	☾	
10	g	Margaret Q.	29	1	27	15	☾	3	36	☾	☐	h	☾	
11	a	Barnabas A.	29	58	9	11	h	8	3	☾	☐	h	☾	
12	b	Cyrinus	0	55	22	17	u	12	21	☾	☐	h	☾	wind
13	c	2 un. ft. Tri.	1	52	5	11	☾	12	35	☾	☐	h	☾	
14	d	cafil Magnus	2	49	18	22	☾	25	48	☾	☐	h	☾	and
15	e	Modestus	3	46	1	14	☾	12	9	☾	☐	h	☾	ain for
16	f	Richard Ch	4	44	15	14	h	9	31	☾	☐	h	☾	several.
17	g	Boroloph	5	4	28	58	u	11	47	☾	☐	h	☾	day.
18	a	Marcus & M	6	38	12	52	☾	15	38	☾	☐	h	☾	
19	b	Gervasiu	7	35	26	50	☾	1	38	☾	☐	h	☾	very hot wit
20	c	3 S n. aft Tr.	8	32	0	56	☾	22	12	☾	☐	h	☾	hunder
21	d	Walburg	9	29	25	8	h	9	58	☾	☐	h	☾	lightning or
22	e	Albon	10	26	7	22	u	11	16	☾	☐	h	☾	trial
23	f	Termende	11	23	23	37	☾	18	42	☾	☐	h	☾	
24	g	John Bap.	12	20	7	51	☾	7	30	☾	☐	h	☾	forms
25	a	Amphibalus	13	17	11	5	☾	1	26	☾	☐	h	☾	
26	b	John and Pa	14	14	5	52	h	10	22	☾	☐	h	☾	rose tempe-
27	c	4 Sun. aft. Tri.	15	11	19	33	u	10	49	☾	☐	h	☾	rate.
28	d	Leo & P.	16	8	2	56	☾	21	46	☾	☐	h	☾	
29	e	Pet. Ap.	17	5	6	☾	☾	13	23	☾	☐	h	☾	ib
30	f	Comem S. Pa.	18	2	28	44	☾	9	49	☾	☐	h	☾	end

Moon Rises.		Moon is South.		Moon Sets.	
d.	m.	b.	m.	b.	m.
1	VI 45 aft. noon	3	6	7	15 af. noon
6	0 24 } mor.	6	42 } mor.	7	0 8 } mer.
11	6 29	10	27	0	2 34 }
16		11	48	2	
21		6	58		
26		11	26		

Day	Long. more or less	Dragon's head S. at 12	Day	Long. more or less	Dragon's head S. at 12
1	104	43	11	104	43
2	105	35	12	105	35
3	106	26	13	106	26
4	107	18	14	107	18
5	108	10	15	108	10
6	109	2	16	109	2
7	110	53	17	110	53
8	111	45	18	111	45
9	112	37	19	112	37
10	113	28	20	113	28
11	114	20	21	114	20
12	115	11	22	115	11
13	116	0	23	116	0
14	117	52	24	117	52
15	118	44	25	118	44
16	119	36	26	119	36
17	120	28	27	120	28
18	121	18	28	121	18
19	122	10	29	122	10
20	123	2	30	123	2
21	124	53	31	124	53
22	125	45	32	125	45
23	126	37	33	126	37
24	127	28	34	127	28
25	128	20	35	128	20
26	129	11	36	129	11
27	130	0	37	130	0
28	131	52	38	131	52
29	132	44	39	132	44
30	133	36	40	133	36
31	134	28	41	134	28
1	135	18	42	1	135
2	136	10	43	2	136
3	137	2	44	3	137
4	138	53	45	4	138
5	139	45	46	5	139
6	140	37	47	6	140
7	141	28	48	7	141
8	142	20	49	8	142
9	143	11	50	9	143
10	144	0	51	10	144
11	145	52	52	11	145
12	146	44	53	12	146
13	147	36	54	13	147
14	148	28	55	14	148
15	149	18	56	15	149
16	150	10		16	150
17	151	2		17	151
18	152	53		18	152
19	153	45		19	153
20	154	37		20	154
21	155	28		21	155
22	156	20		22	156
23	157	11		23	157
24	158	0		24	158
25	159	52		25	159
26	160	44		26	160
27	161	36		27	161
28	162	28		28	162
29	163	18		29	163
30	164	10		30	164
31	165	2		31	165

High-water at London b. tide

Dragon's head S. at 12

Day longed for 3 h. 33 min.

Longest day 16 h. 30 min.

On which day, the ☉ will be due East at 20 min. after 8. in 1 b. morn. and due West at 40 min. past 3. in the afternoon, and will rise N E half a Point Easter

# July hath XXXI days.

- Last Quarter the 4 day, 11 m, at 11 at night.
- New Moon the 12 day, a quarter past 4 in the Afternoon.
- First Quarter the 19 day, half an hour before 12 at n.
- Full Moon the 26 day 3 Quarters past 2 afternoon.

Strong drink and new refuse; it is chy For.  
To baibe in Rivers con', this July go.

1	g	Romwald B.	18	59	11	X	11	h	10	45	☾	☿	☿
2	a	Visit. Mary	19	57	23		22	h	10	25	☿	☿	☿
3	b	Hyacinth.	20	54	5	V	22	☿	24	51	☿	☿	☿
4	c	5 Sun. aft. Tr.	21	5	17		15	☿	19	17	☿	☿	☿
5	d	Avielmus	22	48	29		7	☿	17	22	☿	☿	☿
6	e	Sexburga Q	23	45	10	☿	29	h	11	5	☿	☿	☿
7	f	Tr. Th. Con	24	42	23		☿	10	5	☿	☿	☿	☿
8	g	Grembold	25	39	5	☿	13	☿	27	50	☿	☿	☿
9	a	Edelbourg. Q	26	37	17		40	☿	23	13	☿	☿	☿
10	b	7 Brethren M	27	34	0	☿	27	☿	24	1	☿	☿	☿
11	c	6 Sun. aft. Tr.	28	31	13		34	h	11	24	☿	☿	☿
12	d	Henricus	29	28	27		1	☿	9	50	☿	☿	☿
13	e	Anaclet.	0	25	10	☿	47	☿	1	40	☿	☿	☿
14	f	Romaventure	1	23	14		48	☿	1	11	☿	☿	☿
15	g	Swithia	2	20	8	☿	59	☿	29	34	☿	☿	☿
16	a	Osmond	3	17	23		19	h	1	40	☿	☿	☿
17	b	Kenelm	4	14	7	☿	37	☿	9	35	☿	☿	☿
18	c	5 Sun. aft. Tri	5	12	21		52	☿	4	1	☿	☿	☿
19	d	Rishi u	6	5	6	☿	3	☿	7	10	☿	☿	☿
20	e	Margaret V.	7	6	20		6	☿	4	12	☿	☿	☿
21	f	Dogdayes beg	8	4	3	☿	58	h	1	34	☿	☿	☿
22	g	Mary M gl	9		17		49	☿	9	3	☿	☿	☿
23	a	Apollinaris	9	5	1	☿	2	☿	7	20	☿	☿	☿
24	b	Christ. na V M	10	5	14		5	☿	13	1	☿	☿	☿
25	c	S. James Ap.	11	5	18		13	☿	7	19	☿	☿	☿
26	d	Anna	12	5	1	☿	18	h	1	29	☿	☿	☿
27	e	Joseph Arma.	13	4	24		5	☿	9	30	☿	☿	☿
28	f	Celsus V.	14	4	6	☿	4	☿	0	29	☿	☿	☿
29	g	Martha V.	15	4	19		10	☿	19	12	☿	☿	☿
30	a	Abden	16	4	1	☿	15	☿	8	38	☿	☿	☿
31	b	Ienarius	17	3	12		21						



# ☾ Moon Rises Moon Sets Moon Sets

1 9 45 af. n. 3 163 mor.  
6 11 14 6 37  
11 2 41 morn, 10 50

16 9 31 af. n.  
21 14 18 } mor  
26 4 24 }

July.

Sun Rises	Sun Sets	Notes	Moon Rises	Moon Sets
1 3 3	57 8	Drums Girdle rises Cosmically	11 12	11 12
2 3 3	57 8	The Scorpions T'igh, and Wallure.	12 45	12 45
3 3 3	58 8	Day 18 hours 10 ne.	13 21	13 21
4 3 3	59 8	Heart are S. at mid.	14 5	14 5
5 4 4	57 7	Days shortened 38 minutes	15 5	15 5
6 4 4	57 7		16 1	16 1
7 4 4	57 7		17 5	17 5
8 4 4	57 7		18 1	18 1
9 4 4	57 7		19 1	19 1
10 4 4	57 7		20 1	20 1
11 4 4	57 7		21 1	21 1
12 4 4	57 7		22 1	22 1
13 4 4	57 7		23 1	23 1
14 4 4	57 7		24 1	24 1
15 4 4	57 7		25 1	25 1
16 4 4	57 7		26 1	26 1
17 4 4	57 7		27 1	27 1
18 4 4	57 7		28 1	28 1
19 4 4	57 7		29 1	29 1
20 4 4	57 7		30 1	30 1
21 4 4	57 7		31 1	31 1
22 4 4	57 7		32 1	32 1
23 4 4	57 7		33 1	33 1
24 4 4	57 7		34 1	34 1
25 4 4	57 7		35 1	35 1
26 4 4	57 7		36 1	36 1
27 4 4	57 7		37 1	37 1
28 4 4	57 7		38 1	38 1
29 4 4	57 7		39 1	39 1
30 4 4	57 7		40 1	40 1
31 4 4	57 7		41 1	41 1

# August hath XXXI days

- Last Quarter the 3 day, at a quarter past 3 in the afternoon
- New Moon the 11 day, three quarters after 3 in the morning
- First Quarter the 17 day, 39 min. past 3 in the afternoon
- Full Moon the 25 day, 25 min. after 4 in the morning.

Take heed of sursets, inflaming meats and spices;  
Physick forbear, be wise in exercises.

1		Lammas day	18	46	25	V	15	h	12	16	♂	moist air
2	b	Stephen	19	33	7	♂	7	♂	9	31	♂	with the
3	e	Invent. Steph	20	3	18	♂	53	♂	14	17	♂	♂ h
4	f	Dominick. C	21	29	0	II	59	♀	26	27	♂	remission
5	g	Festum Nivia	22	26	13		6	♀	7	5	♂	♂ ♀ of
6	a	Trouff. Chris	23	24	2		31	h	12	21	♂	toe former
7	b	Donatius B. M.	24	22	8	♂	21	♂	9	41	♂	heat, some-
8	c	10 Sun. aft. Tr	25	20	21	♂	33	♂	7	28	♂	times
9	d	Julian:	26	17	5	♂	11	♀	2	32	♂	♂ ♀
10	e	Laurence M	27	15	19		14	♂	3	18	♂	h and
11	f	Gilbert B. C	28	13	3	♂	41	h	12	21	♂	♂ ♀ flying
12	g	Clare Virg.	29	11	18		19	♂	9	54	♂	♂ ♀ clouds
13	a	Hypolitus M	0	9	3	♂	5	♂	20	39	♂	♂ ♀
14	b	Eusebius C.	1	7	17		50	♀	8	38	♂	Stationary
15	c	11 Sun. aft. Tri.	2	5	2	♂	46	♀	29	10	♂	small rain
16	d	Rochus	3	2	16		27	h	12	25	♂	
17	e	Thom. of Hart.	4	0	0		51	♂	10	11	♂	h
18	f	Helena Emp.	4	59	14		38	♂	23	52	♂	♂ ♀
19	g	Clinton. K. M	5	57	28		11	♀	14	45	♂	
20	a	Bernard Ab.	6	55	11	♂	29	♀	25	47	♂	good and
21	b	Richard B. S. A.	7	53	24		35	h	12	23	♂	sea onable
22	c	12 Sun. aft. Tr.	8	51	7	♂	30	♂	10	33	♂	weather.
23	d	Zacharus	9	49	20		14	♂	27	6	♂	♂ ♀
24	e	S. Barthol. day	10	47	2	♂	50	♀	20	53	♂	♂ ♀
25	f		11	46	15		14	♂	25	37	♂	now and
26	g	Zopherin B. M.	12	44	27		29	h	12	18	♂	♂ ♀ then
27	a	Day day and	13	42	9	V	35	♂	10	58	♂	some welcom
28	b	Austin B. D.	14	41	21		34	♂	0	20	♂	showers.
29	c	13 Sun. aft. Tri.	14	39	3	♂	30	♀	27	2	♂	♂ ♀
30	d	Belix	16	30	15		21	♀	28	49	♂	at greatest
31	e	Adrian B. C.	17	36	27		12					at least

Moon Rises		Moon is South		Moon Sets	
b.	m.	b.	m.	b.	m.
1	9	3	53	7	15
6	3	46	mor.	9	19
11	34	0	21	17	af. no
16	0	4	43	0	17
21	4	8	15		Morn
26	7	1	26		inorn.

4	39	7	21	17	30	Pegasus Mouth South at 12	11
5	40	8	22	18	31	Day 14 hours and half long	12
6	41	9	23	19	32	Day breaks at 2 h. 15 m.	13
7	42	10	24	20	33	Twilight ends at 9 h. 45 m.	14
8	43	11	25	21	34	☉ rises E N E. sets W N W.	15
9	44	12	26	22	35	☉ rises E N E. sets W N W.	16
10	45	13	27	23	36	☉ rises E N E. sets W N W.	17
11	46	14	28	24	37	☉ rises E N E. sets W N W.	18
12	47	15	29	25	38	☉ rises E N E. sets W N W.	19
13	48	16	30	26	39	☉ rises E N E. sets W N W.	20
14	49	17	31	27	40	☉ rises E N E. sets W N W.	21
15	50	18	32	28	41	☉ rises E N E. sets W N W.	22
16	51	19	33	29	42	☉ rises E N E. sets W N W.	23
17	52	20	34	30	43	☉ rises E N E. sets W N W.	24
18	53	21	35	31	44	☉ rises E N E. sets W N W.	25
19	54	22	36	32	45	☉ rises E N E. sets W N W.	26
20	55	23	37	33	46	☉ rises E N E. sets W N W.	27
21	56	24	38	34	47	☉ rises E N E. sets W N W.	28
22	57	25	39	35	48	☉ rises E N E. sets W N W.	29
23	58	26	40	36	49	☉ rises E N E. sets W N W.	30
24	59	27	41	37	50	☉ rises E N E. sets W N W.	31
25	60	28	42	38	51	☉ rises E N E. sets W N W.	32
26	61	29	43	39	52	☉ rises E N E. sets W N W.	33
27	62	30	44	40	53	☉ rises E N E. sets W N W.	34
28	63	31	45	41	54	☉ rises E N E. sets W N W.	35
29	64	32	46	42	55	☉ rises E N E. sets W N W.	36
30	65	33	47	43	56	☉ rises E N E. sets W N W.	37
31	66	34	48	44	57	☉ rises E N E. sets W N W.	38
32	67	35	49	45	58	☉ rises E N E. sets W N W.	39
33	68	36	50	46	59	☉ rises E N E. sets W N W.	40
34	69	37	51	47	60	☉ rises E N E. sets W N W.	41
35	70	38	52	48	61	☉ rises E N E. sets W N W.	42
36	71	39	53	49	62	☉ rises E N E. sets W N W.	43
37	72	40	54	50	63	☉ rises E N E. sets W N W.	44
38	73	41	55	51	64	☉ rises E N E. sets W N W.	45
39	74	42	56	52	65	☉ rises E N E. sets W N W.	46
40	75	43	57	53	66	☉ rises E N E. sets W N W.	47
41	76	44	58	54	67	☉ rises E N E. sets W N W.	48
42	77	45	59	55	68	☉ rises E N E. sets W N W.	49
43	78	46	60	56	69	☉ rises E N E. sets W N W.	50
44	79	47	61	57	70	☉ rises E N E. sets W N W.	51
45	80	48	62	58	71	☉ rises E N E. sets W N W.	52
46	81	49	63	59	72	☉ rises E N E. sets W N W.	53
47	82	50	64	60	73	☉ rises E N E. sets W N W.	54
48	83	51	65	61	74	☉ rises E N E. sets W N W.	55
49	84	52	66	62	75	☉ rises E N E. sets W N W.	56
50	85	53	67	63	76	☉ rises E N E. sets W N W.	57
51	86	54	68	64	77	☉ rises E N E. sets W N W.	58
52	87	55	69	65	78	☉ rises E N E. sets W N W.	59
53	88	56	70	66	79	☉ rises E N E. sets W N W.	60
54	89	57	71	67	80	☉ rises E N E. sets W N W.	61
55	90	58	72	68	81	☉ rises E N E. sets W N W.	62
56	91	59	73	69	82	☉ rises E N E. sets W N W.	63
57	92	60	74	70	83	☉ rises E N E. sets W N W.	64
58	93	61	75	71	84	☉ rises E N E. sets W N W.	65
59	94	62	76	72	85	☉ rises E N E. sets W N W.	66
60	95	63	77	73	86	☉ rises E N E. sets W N W.	67
61	96	64	78	74	87	☉ rises E N E. sets W N W.	68
62	97	65	79	75	88	☉ rises E N E. sets W N W.	69
63	98	66	80	76	89	☉ rises E N E. sets W N W.	70
64	99	67	81	77	90	☉ rises E N E. sets W N W.	71
65	100	68	82	78	91	☉ rises E N E. sets W N W.	72
66	101	69	83	79	92	☉ rises E N E. sets W N W.	73
67	102	70	84	80	93	☉ rises E N E. sets W N W.	74
68	103	71	85	81	94	☉ rises E N E. sets W N W.	75
69	104	72	86	82	95	☉ rises E N E. sets W N W.	76
70	105	73	87	83	96	☉ rises E N E. sets W N W.	77
71	106	74	88	84	97	☉ rises E N E. sets W N W.	78
72	107	75	89	85	98	☉ rises E N E. sets W N W.	79
73	108	76	90	86	99	☉ rises E N E. sets W N W.	80
74	109	77	91	87	100	☉ rises E N E. sets W N W.	81
75	110	78	92	88	101	☉ rises E N E. sets W N W.	82
76	111	79	93	89	102	☉ rises E N E. sets W N W.	83
77	112	80	94	90	103	☉ rises E N E. sets W N W.	84
78	113	81	95	91	104	☉ rises E N E. sets W N W.	85
79	114	82	96	92	105	☉ rises E N E. sets W N W.	86
80	115	83	97	93	106	☉ rises E N E. sets W N W.	87
81	116	84	98	94	107	☉ rises E N E. sets W N W.	88
82	117	85	99	95	108	☉ rises E N E. sets W N W.	89
83	118	86	100	96	109	☉ rises E N E. sets W N W.	90
84	119	87	101	97	110	☉ rises E N E. sets W N W.	91
85	120	88	102	98	111	☉ rises E N E. sets W N W.	92
86	121	89	103	99	112	☉ rises E N E. sets W N W.	93
87	122	90	104	100	113	☉ rises E N E. sets W N W.	94
88	123	91	105	101	114	☉ rises E N E. sets W N W.	95
89	124	92	106	102	115	☉ rises E N E. sets W N W.	96
90	125	93	107	103	116	☉ rises E N E. sets W N W.	97
91	126	94	108	104	117	☉ rises E N E. sets W N W.	98
92	127	95	109	105	118	☉ rises E N E. sets W N W.	99
93	128	96	110	106	119	☉ rises E N E. sets W N W.	100
94	129	97	111	107	120	☉ rises E N E. sets W N W.	101
95	130	98	112	108	121	☉ rises E N E. sets W N W.	102
96	131	99	113	109	122	☉ rises E N E. sets W N W.	103
97	132	100	114	110	123	☉ rises E N E. sets W N W.	104
98	133	101	115	111	124	☉ rises E N E. sets W N W.	105
99	134	102	116	112	125	☉ rises E N E. sets W N W.	106
100	135	103	117	113	126	☉ rises E N E. sets W N W.	107
101	136	104	118	114	127	☉ rises E N E. sets W N W.	108
102	137	105	119	115	128	☉ rises E N E. sets W N W.	109
103	138	106	120	116	129	☉ rises E N E. sets W N W.	110
104	139	107	121	117	130	☉ rises E N E. sets W N W.	111
105	140	108	122	118	131	☉ rises E N E. sets W N W.	112
106	141	109	123	119	132	☉ rises E N E. sets W N W.	113
107	142	110	124	120	133	☉ rises E N E. sets W N W.	114
108	143	111	125	121	134	☉ rises E N E. sets W N W.	115
109	144	112	126	122	135	☉ rises E N E. sets W N W.	116
110	145	113	127	123	136	☉ rises E N E. sets W N W.	117
111	146	114	128	124	137	☉ rises E N E. sets W N W.	118
112	147	115	129	125	138	☉ rises E N E. sets W N W.	119
113	148	116	130	126	139	☉ rises E N E. sets W N W.	120
114	149	117	131	127	140	☉ rises E N E. sets W N W.	121
115	150	118	132	128	141	☉ rises E N E. sets W N W.	122
116	151	119	133	129	142	☉ rises E N E. sets W N W.	123
117	152	120	134	130	143	☉ rises E N E. sets W N W.	124
118	153	121	135	131	144	☉ rises E N E. sets W N W.	125
119	154	122	136	132	145	☉ rises E N E. sets W N W.	126
120	155	123	137	133	146	☉ rises E N E. sets W N W.	127
121	156	124	138	134	147	☉ rises E N E. sets W N W.	128
122	157	125	139	135	148	☉ rises E N E. sets W N W.	129
123	158	126	140	136	149	☉ rises E N E. sets W N W.	130
124	159	127	141	137	150	☉ rises E N E. sets W N W.	131
125	160	128	142	138	151	☉ rises E N E. sets W N W.	132
126	161	129	143	139	152	☉ rises E N E. sets W N W.	133
127	162	130	144	140	153	☉ rises E N E. sets W N W.	134
128	163	131	145	141	154	☉ rises E N E. sets W N W.	135
129	164	132	146	142	155	☉ rises E N E. sets W N W.	136
130	165	133	147	143	156	☉ rises E N E. sets W N W.	137
131	166	134	148	144	157	☉ rises E N E. sets W N W.	138
132	167	135	149	145	158	☉ rises E N E. sets W N W.	139
133	168	136	150	146	159	☉ rises E N E. sets W N W.	140
134	169	137	151	147	160	☉ rises E N E. sets W N W.	141
135	170	138	152	148	161	☉ rises E N E. sets W N W.	142
136	171	139	153	149	162	☉ rises E N E. sets W N W.	143
137	172	140	154	150	163	☉ rises E N E. sets W N W.	144
138	173	141	155	151	164	☉ rises E N E. sets W N W.	145
139	174	142	156	152	165	☉ rises E N E. sets W N W.	146
140	175	143	157	153	166	☉ rises E N E. sets W N W.	147
141	176	144	158	154	167	☉ rises E N E. sets W N W.	148
142	177	145	159	155	168	☉ rises E N E. sets W N W.	149
143	178	146	160	156	169	☉ rises E N E. sets W N W.	150
144	179	147	161	157	170	☉ rises E N E. sets W N W.	151
145	180	148	162	158	171	☉ rises E N E. sets W N W.	152
146	181	149	163	159	172	☉ rises E N E. sets W N W.	153
147	182	150	164	160	173	☉ rises E N E. sets W N W.	154
148	183	151	165	161	174	☉ rises E N E. sets W N W.	155
149	184	152	166	162	175	☉ rises E N E. sets W N W.	156
150	185	153	167	163	176	☉ rises E N E. sets W N W.	157
151	186	154	168	164	177	☉ rises E N E. sets W N W.	158
152	187	155	169	165	178	☉ rises E N E. sets W N W.	159
153	188	156	170	166	179	☉ rises E N E. sets W N W.	160
154	189	157	171	167	180	☉ rises E N E. sets W N W.	161
155	190	158	172	168	181	☉ rises E N E. sets W N W.	162
156	191	159	173	169	182	☉ rises E N E. sets W N W.	163
157	192	160	174	170	183	☉ rises E N E. sets W N W.	164
158	193	161	175	171	184	☉ rises E N E. sets W N W.	165
159	194	162	176	172	185	☉ rises E N E. sets W N W.	166
160	195	163	177	173	186	☉ rises E N E. sets W N W.	167
161	196	164	178	174	187	☉ rises E N E. sets W N W.	168
162	197	165	179	175	188	☉ rises E N E. sets W N W.	169
163	198	166	180	176	189	☉ rises E N E. sets W N W.	170
164	199	167	181	177	190	☉ rises E N E. sets W N W.	171
165	200	168	182	178	191	☉ rises E N E. sets W N W.	172
166	201	169	183	179	192	☉ rises E N E. sets W N W.	173
167	202	170	184	180	193	☉ rises E N E. sets W N W.	174
168	203	171	185	181	194	☉ rises E N E. sets W N W.	175
169	204	172	186	182	195	☉ rises E N E. sets W N W.	176
170	205	173	187	183	196	☉ rises E N E. sets W N W.	177
171	206	174	188	184	197	☉ rises E N E. sets W N W.	178
172	207	175	189	185	198	☉ rises E N E. sets W N W.	179
173	208	176	190	186	199	☉ rises E N E. sets W N W.	180
174	209	177	191	187	200</		

septé

septé

septé

# Mean Rises Moon's Sunset Morn

h.	m.	h.	m.	h.	m.
1	9	4	25 n.	5	6 mor.
6	1	59	morn	9	203
11	16			1	48
21				6	30
26	5	af. n.		10	27
36	8			1	27
37	8				
40	6				
42	6				
44	6				
45	6				
47	6				
49	6				
50	6				
52	6				
53	6				
54	6				
58	6				
0	6				
2	8				
4	5				
6	5				
8	5				
10	5				
11	5				
16	5				
17	6				
18	6				
20	6				
21	6				
22	6				
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92	6				
93	6				
94	6				
95	6				
96	6				
97	6				
98	6				
99	6				
100	6				

Day breaks 3 h. 42 min.

Twilight ends 8 h. 48 min.

Day 12 hours and half long.

Days shortened 4 hours.

Andromeda's H-ad, and C-Siopes

Chir are S. at 12.

Sun rises due East

Day and night 12 h.

Sun sets due West

Day breaks 8 h. 4 m.

Twilight ends 7 h. 52 m.

Day and night 12 h.

Day 11 hours and 2 half long.

Day breaks 4 h. 50 m.

Twilight ends 7 h. 33 m.

Andromeda Giv. 11. South at 12.

Day 11 hours and 2 half long.

Cassiopees Kite South at 12.

# October hath XXXI days:

- Last Quarter the 1 day, 39 min. after 11 at night
- New Moon the 8 day, 3 quarters after 7 at night
- First Quarter the 15 day, 11 min. past 1 afternoon,
- Full Moon the 23 day, 21 min. past 3 afternoon
- Last Quarter the 31 day, 3 quarters past 1 afternoon.

Now Physick help do not refuse;

If thou it want; an't warily canst use.

1	a	Remigius	18	3	12	20	h	10	31	♂	hail storms
2	d	Tho. B. Herif	19	5	24	59	h	15	47	♂	and great
3	c	18 Sun. af. Tri.	20	4	8	♂	3	4	12	♂	winds
4	d	Franciscus	21	4	21	34	h	11	47	♂	very fierce
5	e	Placidus M.	22	4	5	♂	37	28	53	♂	and impetuous
6	f	Bruno Con.	23	3	20	9	h	10	0	♂	
7	g	Mar. P. & M.	24	3	5	♂	7	16	40	♂	
8	a	Demetrius	25	3	20	2	♂	17	35	♂	
9	b	Dyonisius	26	3	5	4	♂	18	3	♂	
10	c	19 Sun. af. Trin	27	3	20	6	♂	6	52	♂	wind
11	d	Burchardus	28	3	5	144	h	9	47	♂	
12	e	Cölmannus	29	3	20	16	h	17	35	♂	
13	f	Trans. Edw.	0	3	4	♂	30	0	19	♂	rain
14	g	Calixtus P.M.	1	3	8	7	♂	24	20	♂	cold and
15	a	Teresa Vir,	2	3	1	♂	7	14	35	♂	
16	b	Lullus B.	3	3	14	7	h	9	23	♂	windy
17	c	20 Sun. af. Trin	4	3	26	40	h	18	31	♂	Nativitatis
18	d	S. Luke Evan	5	3	8	♂	59	4	25	♂	Authoriz.
19	e	Fridiswide	6	3	21	9	♂	0	36	♂	dry winds
20	f	Windelin,	7	3	3	♂	12	21	8	♂	
21	g	Ursula V. M.	8	4	15	10	h	8	58	♂	could rain
22	a	Cordula V.M.	9	4	27	6	h	19	31	♂	
23	b	Termo begun	10	4	9	♂	0	7	51	♂	
24	c	21 Sun. af. Tri.	11	5	20	55	♂	6	53	♂	
25	d	Crispinus	12	5	2	♂	52	29	26	♂	
26	e	Evaristus	13	5	14	52	h	8	34	♂	
27	f	Ivo Conf.	14	6	26	58	h	20	31	♂	
28	g	S. Sam & Jud	15	6	9	♂	12	10	38	♂	violent
29	a	Eadlin B. C.	16	7	21	39	♂	10	39	♂	rain and
30	b	Agelnoth B.C.	17	7	4	♂	31	6	30	♂	storm
31	c	22 Sun. af. Trin	18	7	17	23					wind

Moon Rises		Moon is South		Moon Sets	
b.	m.	b.	m.	b.	m.
1	9	24	af no	5	33
6	4	33	morn.	10	53
11				2	35
16				7	12
21				10	42
26	5	53	af noon	1	00
31	5	53	af noon	1	00
36	5	53	af noon	1	00
41	5	53	af noon	1	00
46	5	53	af noon	1	00
51	5	53	af noon	1	00
56	5	53	af noon	1	00
61	5	53	af noon	1	00
66	5	53	af noon	1	00
71	5	53	af noon	1	00
76	5	53	af noon	1	00
81	5	53	af noon	1	00
86	5	53	af noon	1	00
91	5	53	af noon	1	00
96	5	53	af noon	1	00
101	5	53	af noon	1	00
106	5	53	af noon	1	00
111	5	53	af noon	1	00
116	5	53	af noon	1	00
121	5	53	af noon	1	00
126	5	53	af noon	1	00
131	5	53	af noon	1	00
136	5	53	af noon	1	00
141	5	53	af noon	1	00
146	5	53	af noon	1	00
151	5	53	af noon	1	00
156	5	53	af noon	1	00
161	5	53	af noon	1	00
166	5	53	af noon	1	00
171	5	53	af noon	1	00
176	5	53	af noon	1	00
181	5	53	af noon	1	00
186	5	53	af noon	1	00
191	5	53	af noon	1	00
196	5	53	af noon	1	00
201	5	53	af noon	1	00
206	5	53	af noon	1	00
211	5	53	af noon	1	00
216	5	53	af noon	1	00
221	5	53	af noon	1	00
226	5	53	af noon	1	00
231	5	53	af noon	1	00
236	5	53	af noon	1	00
241	5	53	af noon	1	00
246	5	53	af noon	1	00
251	5	53	af noon	1	00
256	5	53	af noon	1	00
261	5	53	af noon	1	00
266	5	53	af noon	1	00
271	5	53	af noon	1	00
276	5	53	af noon	1	00
281	5	53	af noon	1	00
286	5	53	af noon	1	00
291	5	53	af noon	1	00
296	5	53	af noon	1	00
301	5	53	af noon	1	00
306	5	53	af noon	1	00
311	5	53	af noon	1	00
316	5	53	af noon	1	00
321	5	53	af noon	1	00
326	5	53	af noon	1	00
331	5	53	af noon	1	00
336	5	53	af noon	1	00
341	5	53	af noon	1	00
346	5	53	af noon	1	00
351	5	53	af noon	1	00
356	5	53	af noon	1	00
361	5	53	af noon	1	00
366	5	53	af noon	1	00
371	5	53	af noon	1	

# November hath XXX. days.

- New Moon the 7 day, at 24 min. after 5 in the morning.
- First Quarter the 14 day, 6 m. after 5 in the morning.
- Full Moon the 22 day, at 8 min. after 9 in the morning.
- Last Quarter the 30 day, half an hour after 1 in the morning.

Choose hot and whol. some drinks, and meats as usual.  
Avoid hot Baths, use hottest exercise.

1	d	All Saints	19	8	0	48	h	8	5	♂	Winds, with
2	e	All Souls	20	9	14	38	h	21	47	♀	new
3	f	Winefride	21	10	28	57	h	15	30	m	rain
4	g	Agricola	22	10	13	35	h	10	43	m	clouds
5	a	Powder Plot	23	11	28	43	h	14	27	♀	dispersed.
6	b	Severus B.M.	24	12	13	m	h	7	42	♂	♂ h c
7	c	23 Sun. at. Tri.	25	13	29	10	h	22	51	♀	♂ ♂ c
8	d	Claudius &c.	26	13	14	2	h	19	1	m	♂ ♂ c
9	e	Theodorus	27	14	28	53	h	27	1	m	♂ ♂ c
10	f	Respicus	28	15	11	9	h	20	16	♀	♂ ♂ c
11	g	Martin B.C.	29	16	26	55	h	7	19	♂	moists wet
12	a	Martin P.M.	0	17	10	15	h	23	56	♀	and stilly
13	b	Kilianus B.M.	1	18	23	10	h	22	32	m	wea. h r
14	c	24 Sun. at. Tri.	2	19	5	43	h	3	18	m	slow
15	d	Leopaldus	3	20	18	1	h	24	41	♀	♂ ♂ c
16	e	Edmund B.	4	21	0	5	h	6	58	♂	with bl. v. ing
17	f	Thaumaturg.	5	22	12	4	h	25	3	♀	to ms and
18	g	Ded. Eccl. P.	6	23	23	57	h	6	5	m	rem. c.
19	a	Pontian P. M.	7	24	5	51	h	9	35	♀	♂ h c
20	b	Edmond K.M.	8	25	17	44	h	26	25	♀	more - i'de
21	c	25 Sun. at. Tri.	9	26	29	42	h	6	39	♂	♂ ♂ c
22	d	Celia Virg.	10	27	11	56	h	26	0	♀	♂ ♂ c
23	e	Clement P.	11	28	23	57	h	29	38	m	♂ ♂ c
24	f	Chrysogonus	12	29	6	16	h	15	53	♀	dry and
25	g	Katherine	13	30	18	44	h	23	34	♀	ord weather.
26	a	Pet. B. Alex.	14	31	1	25	h	6	22	♂	
27	b	Weddings our	15	32	14	19	h	27	18	♀	variable
28	c	Advent. Sund.	16	33	27	29	h	3	14	♀	
29	d	Term ends	17	34	10	55	h	22	11	♀	
30	e	St. Andrew	18	35	24	39	h	17	38	♀	small rain



Moon Rises.			Moon is South.			Moon Sets.		
h. m.			h. m.			h. m.		
11 51 Af. N.			6 57 Mo.			8 23 Af. N.		
6 23 Morn.			10 57			2 5 } Mor.		
11 16			4 17			7 9		
11 16			8 3 } Af. N.					
11 16			11 19					
16 7 31 Af. noon			3 20 Morn.					
17 34 4	10 12	5 26	Dry breads 8 h 37 min.			11 11	11	11
17 36 4	11 12	5 24	Twilight ends 6 h. 23 min.			12 12	12	12
17 38 4	11 12	5 22	Days shortened 7 hours 42 min.			13 13	13	13
17 39 4	11 12	5 21	The great Dog sets cosmically			14 14	14	14
17 40 4	11 12	5 20	Perseus Foot is South at 12.			15 15	15	15
17 42 4	11 12	5 18	Day & nights and shall long.			16 16	16	16
17 43 4	11 12	5 17	Day shortened 8 hours 2 min.			17 17	17	17
17 45 4	11 12	5 15	© Rises S.E. by E. & S. by W. by 12			18 18	18	18
17 46 4	11 12	5 14	The seven stars sets cosmically.			19 19	19	19
17 48 4	11 12	5 12	The Bears eye sets cosmically.			20 20	20	20
17 49 4	11 12	5 11	Twilight ends 6 h. 13 m.			21 21	21	21
17 50 4	11 12	5 10	Day 8 hours long			22 22	22	22
17 52 4	11 12	5 8	The Bears eye Rises Achroically			23 23	23	23
17 53 4	11 12	5 7	Day shortened 8 hours 32 in.			24 24	24	24
17 55 4	11 12	5 5	O lions foot S. at 12			25 25	25	25
17 56 4	11 12	5 4	O lions South. S. at 12			26 26	26	26
17 57 4	11 12	5 3				27 27	27	27
17 58 4	11 12	5 2				28 28	28	28
17 59 4	11 12	5 1				29 29	29	29
18 0 3	11 12	5 0				30 30	30	30
18 1 3	11 12	5 0				31 31	31	31
18 2 3	11 12	5 0						
18 3 3	11 12	5 0						
18 4 3	11 12	5 0						
18 5 3	11 12	5 0						
18 6 3	11 12	5 0						
18 7 3	11 12	5 0						
18 8 3	11 12	5 0						
18 9 3	11 12	5 0						
18 10 3	11 12	5 0						
18 11 3	11 12	5 0						
18 12 3	11 12	5 0						
18 13 3	11 12	5 0						
18 14 3	11 12	5 0						
18 15 3	11 12	5 0						
18 16 3	11 12	5 0						
18 17 3	11 12	5 0						
18 18 3	11 12	5 0						
18 19 3	11 12	5 0						
18 20 3	11 12	5 0						
18 21 3	11 12	5 0						
18 22 3	11 12	5 0						
18 23 3	11 12	5 0						
18 24 3	11 12	5 0						
18 25 3	11 12	5 0						
18 26 3	11 12	5 0						
18 27 3	11 12	5 0						
18 28 3	11 12	5 0						
18 29 3	11 12	5 0						
18 30 3	11 12	5 0						
18 31 3	11 12	5 0						

# December hath XXXI days.

- New Moon the 6 day, 10 min. past in the afternoon
- First Quart. the 13 day, a quarter after midnight
- Full Moon the 22 day, at 3 in the morning
- Last Quarter the 29 day, 3 quarters after 10 before noon.

To keep thy self in action thou mayest play  
at Cards or Dice, but not thy State away.

1	f	Daniel B.	19	37	8	42	h	66	☾	Cloud with	
2	g	Abiana V.	20	38	23	6	u	28	27	☽ now	
3	a	Lucius R.	21	40	1	m	44	♂	6	49	☽
4	b	Barbara V.	22	41	12	45	♀	28	28	☽	☽
5	☾	Sun. in Adv.	23	42	7	2	7	h	11	42	☽
6	d	Nicholaus	24	43	22	17	h	5	54	☾	cold rain
7	e	Ambros. D. C.	25	45	6	v	55	u	29	36	☽
8	f	Concept. M.	26	46	21	10	♂	10	27	☽	☽
9	g	Leocadia V.	27	47	5	m	2	♀	4	46	v
10	a	Malchiades P.	28	48	18	29	♀	9	49	☽	nd frost, a emission of
11	b	Shortest day	29	50	1	30	h	5	43	☾	be cold
12	☾	Sun. in Adv.	0	51	14	10	u	0	45	v	☽
13	d	Lucia. V. M.	1	52	26	29	♂	14	5	☽	ome small now.
14	e	Mimberin.	2	54	8	v	34	♀	14	v	☽
15	f	Hilda Abbes,	3	55	20	31	♀	12	4	☽	☽
16	g	Ember week	4	56	2	☾	22	h	5	35	☾
17	a	O sapientia	5	58	14	11	u	1	55	v	☽
18	b	Windebold	6	59	26	8	♂	17	44	☽	entle
19	☾	Sun. in Adv.	8	0	8	11	h	17	21	v	☽
20	d	Julian	9	2	20	15	♀	10	29	☽	☽
21	e	S. Thomas Ap.	10	3	1	☽	1	h	5	30	☾
22	f	Theodorus	11	4	5	16	u	3	4	v	☽
23	g	V. or V. M.	12	6	28	☽	11	25	☽	☽	roft and seasonable
24	a	Adam & Eve	13	7	11	☽	5	♀	23	29	v
25	b	Christmas day	14	8	24	25	♀	22	15	☽	☽
26	☾	S. Stephen	15	9	7	m	55	h	5	28	☾
27	d	S. John	16	11	21	☽	u	4	3	v	☽
28	e	Innocent	17	12	5	☽	3	25	6	☽	☽
29	f	Tho Cant.	18	13	19	2	♀	29	56	v	of cold to the years
30	g	Eustarchius	19	15	3	m	30	♀	28	45	☽
31	a	S. Lucia P.M.	20	16	17	48					☽ end.

Moon Rises.

Moon is South.

Moon Sets.

h. m.

h. m.

h. m.

1 44 aft. noon  
6 8 o morn.7 17 } morn.  
11 48 }9 16 aft. noon  
2 40 } morn.  
7 35 }

26 8 43 aft. noon

3 32 morn.

12 a

12 b

13 c

14 d

15 e

16 f

17 g

18 h

19 i

20 j

21 k

22 l

23 m

24 n

25 o

26 p

27 q

28 r

29 s

30 t

31 u

32 v

33 w

34 x

35 y

36 z

37 a

38 b

39 c

40 d

41 e

42 f

43 g

44 h

45 i

46 j

47 k

48 l

49 m

50 n

First \* in Orions Girdle S. at 12

Day breaks at 6 in morn.

Try light ends at 6 at night

Days shortened 8 hours 50 m

Orion's right Shoulder S. 12

Orion's right Shoulder S. 12

— Cf north now take thy fill,

For north with measure can produce

no ill.

Day shortened 6 h. 52 m

The ☉ rises S. E. Half a Point Ea-

stly, and sets S. W. half a Point

westerly.

First on the rich ones,

but thy Neighbour's poor

So God will, bless the and

increase thy store.

The lowermost head of the Twin-

sets Abrusically

The foot of the Twins rises Abr.

Day breaks 5 h. 58 m.

Try light ends 6 h. 2 m.

Days lengthened

Cassiopeia at 12 a clock

Little Dog South at 12

Pollux South at 12

10 c

The Dominion of the Moon over the parts of Man's  
Body, passing under the 12 Signs of the Zodiack.

♈ Head and Face

♈ Neck and  
throat

♉ Breast, Ro-  
mack, and  
ribs

♊ Bowels  
and Belly

♋ Secret  
members

♌ Knees



♊ Arms and  
Shoulders

♋ Heart and  
Back

♌ Reins and  
loynes

♍ Thighs

♎ Legs

♏ the Feet

- ♈ The Ram doth rule the Head and Face,  
♉ The Neck and Throat is Taurus's place.  
♊ The Twins the Arms and Shoulders guide;  
♋ The Crab, the Breast, the Spleen, and Side.  
♌ The Heart and Back's bold Leo's share;  
♍ Of Belly and Bow'ls the Maid takes care.  
♎ To Libra Reins and Loynes belong;  
♏ The Scorer's to the Scorpion.  
♐ The Thighs the Archer doth affect;  
♑ The Capricorn the Knees protect.  
♒ The Legs / Aquarius lot doth fall;  
♓ The Feet to Pisces: last of all.

This doth the virtue of these Signs superior,  
Rule the bodies of poor Wights inferior;  
But both are govern'd by God's sovereign might,  
He's happy then that understands them right,

*Sapient dominabitur Astis.*

# BOWKER, 1675.

## *The Almanack Explained.*

THE first column contains the days of the Moneth, the second the days of the Week, C being *Dominical* or *Sunday Letter*; the third contains the *Fests*, both *fixed* and *moveable*, the *Saints-days*, the *Embers*, &c.—The fourth shews the *place* or *sign*, *degree*, and *minute*, in which the *Sun* is every day at Noon.—The fifth, shews the *sign*, *degree*, and *minute*, in which the *Moon* is every day at Noon.—The sixth, shews the *sign*, *degree*, and *minute*, in which every of the *five Planets*, *Saturn*, *Jupiter*, *Mars*, *Venus*, and *Mercury* are every fifth day at Noon.—The seventh sheweth the *Aspects* of the *Planets* with the *Moon*, as also amongst themselves, with the *change* and *inclination* of the *Aire*. All these are contained on the *left-hand side*.

*On the right-hand side, are*

First, the time of *Sun-rising*,—Secondly, the time of *Sun-setting*.—Thirdly, the time of *High-water* at *London-bridge*.—Fourthly, the *length*, *increase*, and *decrease* of the *days and nights*, with the *Rising*, *Southings*, and *Setting* of several of the *fixed Stars* and *Planets*,—And Lastly, the *Roman Account*.

At the top of the left-hand page is the *change*; full, and the quarters of the *Moon*, with *Physical* and *Directory* Verses suting each Moneth. At the top of the right-hand page, is the time of the *Moons rising*, *southings* and *setting* for each fifth day in the year.

Of the *four Seasons*, or *Quarters* of this Year, 1675.

1. Of the *Vernal* or *Spring Quarter*.

This Quarter beginneth upon *Wednesday* the 10th. of *March*, at a minutes before 10 in the *Forenoon*; at which time

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time the Sun makes his entrance into the first scruple of the *Vernal Equinoctial Sign Aries*, causing an equality of days and nights throughout the world (except to such as inhabit between the *Artick* and *Antartick* Circles, and the *Poles* of the world, who have continual day, and continual night for several weeks and moneths together.) At this time the Sun hath no declination, but moveth directly in the very *Equinoctial Circle*, he rising exactly due East, and sets due West. His *Meridian Altitude* being now equal to the *Complement* of the *Latitude*, viz: at London 38 deg. 30. min. and his depression at mid-night, equal to the *Latitude* it self 51 deg. 30 m. The general Constitution of this Quarter is hot and moist, and it continues till the Sun hath made its motion through the three Northern Signs, *Aries*, *Taurus*, and *Gemini*. And

Now do the Birds begin to warble forth  
Sweet Notes, to welcome Phebus to the North:  
He to requite them decketh with rich green  
All Plants and Trees which earst were russet seen:  
And by his quickning Virtue doth produce  
A new supply of all things for mans use.

2. Of the *Æstival* or Sommer Quarter.

Upon St. Barnabas day, the 11th. of June this year, at 50 minutes after mid-night, the Sun enters into the first minute of the Northern Tropical Sign *Cancer*, at which time the *Æstival* or Sommer Quarter commenceth. And now the days are longest, and the nights shortest, to all the Northern Inhabitants of the world, and the contrary to all those who inhabit on the South side of the *Equinoctial Circle*. Now hath the Sun its greatest declination Northward, namely 23 deg. 31 min. 30 seconds, his Amplitude of rising and setting being 40 deg. from the true East and West points of the Horizon Northward; for he rises North-East, half a point Easterly, and sets North-west, half

point *Westerly*; his *Meridian Altitude* will be now 62 deg. and his *midnight depression* only 15 deg. His *Semidurnal Ark* is 8 hours, 13 min. and his *Semidurnal Ark* 3 hours, 47 min. so the *length of the day* is 16 ho. 26 m. and the *length of the night* 7 ho. 34 m. The general constitution of this *Quarter* is *hot and dry*, and it continues so long as the *Sun* is passing through the three *Northern Signs*, *Cancer*, *Leo*, and *Virgo*. And

*Now do the Fields with bearded Grain wax white,*

*And Husband-men o'rejoy'd to see that sight;*

*Up Sluggards, sleep not, hast away to Hay;*

*Wiltst Titan beateth work without delay;*

*For careful Husbands, that intend to thrive,*

*Must (with the Bee) bring honey to the Hive.*

### 3. Of the Autumnal, or Harvest Quarter.

*Sol* having made his farthest *Northerly*, journey, is now returned back again to the *Equinoctial*, and upon *Monday* the 13th. of *Septemb.* at 17 min. after 4 in the morn. enters into the first degree of the *Autumnal Equinoctial* sign *Libra*, working the same effect as he did when he was in *Aries*, by constituting the *days* & *nights* to be of equal length, &c. The general constitution of this *Quarter* is *cold & dry*, and it continues till the *Sun* has made his progress through the 3 *Southern* signs *Libra*, *Scorpio*, and *Sagittarius*. And

*Now Sol from his Imperial Throne descendeth.*

*And towards the Arctick Pole his journey bendeth;*

*At whose departure, every Plant and Tree,*

*For grief, doth cast aside its bravery;*

*And sadly mourning, cannot like, nor thrive*

*Till be return, and them again revive.*

### 4. Of the Hyernia, or Winter Quarter.

This *Quarter* begins at such time as the *Sun* enters into the *Southern Tropical* sign *Capricorn*, causing the *shortest* days and *longest* nights to all *Northern*, and the contrary

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to all Southern Inhabitants throughout the world; & this entrance will happen this year upon Saturday the 11th. of December, at 2 of the Clock in the Morn. The diurnal Arch of the Sun being that day 7 ho. 34 m. & the nocturnal Arch 16 h. 26 m. The amplitude of his rising being 40 deg. from the East or West Southward; his Meridian Altitude being only 15 deg. which is no greater then it is in Summer at 45 m. after 5 in the morn. or 17 m. after 6 at night. This Quarter in the general Constitution of it, is cold & moist, & it continues till the Sun hath passed the 3 Southern signs, Capricorn, Aquarius and Pisces. And now

*See how the silly sapless Trees do shiver,  
For want of Kingly Sol, their comfort giver;  
And how Dame Flora (in her mother Earth)  
Doth shroud her self from blustering Boreas breath,  
And dares not peep, until he back return,  
To quicken Mortals dead with Hyems spurn.*

It may be now expected by some, that I should say something concerning this years revolution, by giving some Astrological judgment concerning the same; but I shall reserve the little paper allotted me to better purpose, and more useful things, and conclude with this piece of Poetry.

*What if the great Conjunctions of great Stars,  
Do threaten Famine, Pestilence, or Wars;  
There is a God, above the Starry Heaven,  
Can make Men Rulers over all the Seven.*

*Which mighty Ruler of the Universe,  
At whose command the Heavens have staid their course,  
Can turn away, that Ill which threatned is;  
If we Repent of what we do amiss:  
For nothing doth his Wrath so soon appease,  
As true Devotion joynd with Laud and Praise.*

*But if in Sin, we do continue still,  
And more and more provoke his Heavenly Will;  
The Stars (his Instruments) must execute  
What he (to warn us) caus'd them but to threat.*

*Sin not, and then, although the Heavens do low'r,  
God can protect us by his Sovereign Power.*



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*Of the Eclipses this Year.*

The last year I gave you an account of the cause and reason of the Eclipses of the Sun and Moon; I shall now only give you the times of the beginnings, middles endings, & continuance of those that will this year be visible in the Horizon of London; for of 5 Eclipses, which this year will happen, only 2, & those of the Moon will be seen here.

The first visible Eclipse will be of the Moon, and will be upon New-years-day at 8 of the Clock at night. It will be a total Eclipse and Central, and of above 3 hours continuance: For

The beginning will be at	h.	m.
The Middle at	— 5 —	34
The end at	— 7 —	29
The whole duration	— 9 —	24
The digits Eclipsed will be	— 3 —	50

At Night.

The digits Eclipsed will be 18 dig. and 53 parts.

The second is an Eclipse of the Sun, upon the 13th. day of June, at a quarter after 5 in the morning.

A third Eclipse will be of the Moon upon the 27 day of June, the middle time whereof, will be at half an hour after 3 in the Morning; some part of this Eclipse may be seen of us, but not all, in respect the Sun rises before the Eclipse doth end. For

The beginning will be at	h.	m.
The middle at	— 1 —	37
The end at	— 3 —	30
The whole duration	— 5 —	24
The digits Eclipsed are	— 3 —	47

In the Morning.

The digits Eclipsed are 15 digit. 2 parts.

The fourth Eclipse will be of the Sun, Decemb. 6. at Sun setting, and so not to be seen of us.

The fifth Eclipse is of the Moon, on the 22d. of Decemb. at 3 in the morning.

**A Table of Interest for several summs of Money at the Rate of Six in the Hundred, for divers Months and Days, viz**

	1. Month.			2. Month.			3. Month.			6. Months			12. Month		
	p.	sh.	p.	p.	sh.	p.	p.	sh.	p.	p.	sh.	p.	p.	sh.	p.
500	2	10	0	5	0	0	7	10	0	15	0	0	30	0	0
400	2	0	0	4	0	0	6	0	0	12	0	0	24	0	0
300	1	10	0	3	0	0	4	10	0	9	0	0	18	0	0
200	1	0	0	2	0	0	3	0	0	6	0	0	12	0	0
100	0	10	0	1	0	0	1	10	0	3	0	0	6	0	0
900		9	0	0	18	0	1	7	0	2	14	0	5	8	0
800		8	0	0	16	0	1	4	0	2	8	0	4	16	0
700		7	0	0	14	0	1	1	0	2	2	0	4	4	0
600		6	0	0	12	0	0	18	0	1	16	0	3	12	0
500		5	0	0	10	0	0	15	0	1	10	0	3	0	0
400		4	0	0	8	0	0	12	0	1	4	0	2	8	0
300		3	0	0	6	0	0	9	0	0	18	0	1	16	0
200		2	0	0	4	0	0	6	0	0	12	0	1	4	0
100		1	0	0	2	0	0	3	0	0	6	0	0	12	0

	1 Day			2 Days			3 Days			5 Days			10 Days		
	sh.	p.	q.	sh.	p.	q.	sh.	p.	q.	sh.	p.	q.	sh.	p.	q.
500	1	8	0	3	4	0	5	0	0	8	4	0	16	8	0
400	1	4	0	2	8	0	4	0	0	6	8	0	13	4	0
300	1	0	0	2	0	0	3	0	0	5	0	0	10	0	0
200	0	8	0	1	4	0	2	0	0	3	4	0	6	8	0
100	0	4	0	0	8	0	1	0	0	1	8	0	3	4	0
90	0	3	3	0	7	2	0	10	2	1	6	0	3	0	0
80	0	3	0	0	6	0	0	9	0	1	3	0	2	6	0
70	0	2	3	0	5	2	0	8	0	1	1	2	2	3	0
60	0	2	1	0	4	2	0	7	0	1	0	0	2	0	0
50	0	2	0	0	4	0	0	6	0	0	10	0	1	8	0

Which Table by Addition, Subtraction, and Multiplication of the Sums Months, and Days, will shew what is due for any other sum of money, for any other number of months or days, than are herein expressed, as by examples shall appear.

## The Use of the former Table of Interest.

**Example 1.** What is the Interest of 70 l. in 2 Months?  
 seek 70 l. in the first Column on the left hand; and right  
 against it, under 2 months, you shall find 0. 14 0, that is,  
 0 pounds, 14 shillings, 0 pence; so that 14 s. is the Interest  
 of 70 l. for 2 months; and in the same manner you may  
 find the Interest of 90 l. for 6 months to be 2 l. 14 s. of  
 300 l. for 3 months to be 4 l. 10 s.

**Example 2.** What is the Interest of 300 l. for 1 year,  
 9 months, and 15 days?

The Interest of 300 l. for	12 Months.	{	18	—	0	—	0
	6 Months.	{	9	—	0	—	0
	3 Months.	{	4	—	10	—	0
	10 Days.	{	0	—	10	—	0
	5 Days.	{	0	—	5	—	0
		The sum		—	32	—	5 — 0

Which 32 l. 5 s. is the Interest of 300 l. for one year, nine  
 month, and fifteen days.

**Example 3.** What is the Interest of 470 l. for 17 mon.  
 and 23 days?

The Interest of 400 l. for	12 Months,	{	24	0	0	—	4	4	0
	3 Months,	{	6	0	0	—	1	1	0
	2 Months,	{	4	0	0	—	0	14	0
	10 Days.	{	0	13	4	—	0	2	3
	10 Days.	{	0	13	4	—	0	2	3
	3 Days.	{	0	4	0	—	0	0	8
		The Sum is		—	35	10	8	—	6 4 2





Which sums { 35 l. 10 s. 8 d. } Added together, make 41 l.  
 And { 14 s. 10 d. } for the Interest of  
 6 l. 4 s. 2 d } 470 l. for 17 Months and 23  
 41 14 10 days.

C 4

A

Bowker, 1675.

*A Table for the Purchase of Leases of  
Lands, or Houses, ready cast up at  
5l. 6l. 8l. and 10l. Per Cent.  
Compound interest.*

	At V Per Cent.		At VI Per Cent.		At 8 per Cent.		At X per Cent.	
	Years Mon		Years Mon		Years Mon		Years Mon	
								
1	0	11	0	11	0	11	0	11
2	1	10	1	10	1	9	1	9
3	2	9	2	8	2	7	2	6
4	3	7	3	6	3	4	3	2
5	4	4	4	3	4	0	4	9
6	5	1	5	11	5	7	5	4
7	6	9	6	7	6	2	6	11
8	7	6	7	2	7	9	7	4
9	7	1	8	10	8	8	8	9
10	8	9	9	4	9	9	9	2
11	9	4	10	11	10	6	10	6
13	10	5	11	10	11	7	11	1
16	11	5	12	9	12	7	12	7
17	11	3	13	10	13	8	13	0
19	12	1	14	11	14	8	14	4
21	12	10	15	11	15	7	15	11
23	13	6	16	12	16	6	16	1
25	14	1	17	12	17	4	17	3
27	14	2	18	13	18	10	18	4
39	15	2	19	13	19	11	19	6
31	15	7	20	13	20	2	20	9
41	17	1	21	15	21	11	21	10
51	18	3	22	15	22	11	22	11
61	18	11	23	16	23	3	23	0
71	19	4	24	16	24	4	24	0
81	19	7	25	16	25	5	25	0
91	19	9	26	16	26	6	26	0
Fee.	20	0	27	16	27	6	27	0

*The Number of Years to be Purchased*

*The Value of the Purchase in*

*The Value of the Purchase in*

*The Value of the Purchase*

*The Value of the Purchase in*

Booker, 1675.

*The Use of the foregoing Table, for  
the Purchase of Leases, &c.*

The Table consists of five Columns, The first contains any number of years that are to be purchased, from 1 year to a 100.

The second, tells you how many years and odds Months purchase, such a Lease is worth in ready Money, *5lb. per Cent.* being allowed for the interest of the Money laid out.

The third Columns shews, what the same is worth at 6lb. *per Cent.* The fourth at 8lb. *per Cent.* And the last at 10lb. *per Cent.*

Example, What is a Lease of 51 years to come, worth in ready Money, at 5lb. per Cent. Also,

Look in the first Column for 51 years, and right against it under *V per cent*, you shall find 18. 3. which shews the Lease is worth 8 years purchase, and 3 moneths, which is a quarter of a year. So that if the Rent were 10 *l.* a year, then 18 times 10 *l.* is 180 *l.* and the quarter of the year is 2 *l.* 10 *s.* in all 182 *l.* 10 *s.* and so much is the Lease worth in ready Money at 5 *per cent*.--- But if the Purchaser would have 6 *l.* 8 *s.* or 10 *l.* profit for his Money, then

$\left\{ \begin{array}{l} L. \\ A. \end{array} \right\}$	$\left\{ \begin{array}{l} 6 \\ 8 \\ 10 \end{array} \right\}$	$\left\{ \begin{array}{l} \text{Profit for his} \\ \text{money the lease} \\ \text{is worth} \end{array} \right\}$	$\left\{ \begin{array}{l} \text{year Mon.} \\ 15-9 \\ 12-3 \\ 9-11 \end{array} \right\}$	$\left\{ \begin{array}{l} \text{Purchase} \\ \text{which} \\ \text{comes to} \\ \text{but} \end{array} \right\}$	$\left\{ \begin{array}{l} l. \quad s. \quad d. \\ 157-10-0 \\ 122-10-0 \\ 99-3- \end{array} \right\}$
--	--	--	--	--	---

*And thus you may do for any other number of Years.*

So, a Lease for 21 years {	I.	} percent. is worth	Years.	Months.
	5		12	10
	6		11	9
	8		10	0
10			8	11

let the Rent be what it will.

Bowker, 1675.

Concerning the Magnitude, Motions, Distances, and  
Passions of the Planets this year, 1675.

- Saturn**
- I**s the highest of the Planets, and slowest in Motion.  
Maketh but one Revolution in 29 years, and 162 days.  
Is distant from the Sun 47 millions 833 thous. 376 miles.  
His proper motion in one day is but 2 minutes.  
Moveth in one day 35 thousand 959 miles, in an hour 1496,  
and in a minute 25 miles.  
Is once bigger than the Earth.  
Is direct in motion this year, till the 14 of Aug. and then  
he is Retrograde till the 26 of Decemb. and then direct  
again.  
Is an Evening Star till the 10 of April, and then a morn-  
ing Star till the 22 of Octob. and after that an Even-  
ing Star to the years end.  
Is the next Planet below Saturn.  
Maketh but one Revolution in a 11 years, 315 days, 14  
hours, and 13 minutes.  
Is distant from the Sun 26 millions, 179 thous. 152 miles.  
His proper motion in one day is but 4 min. 59 seconds.  
Moveth in one day 17 thousand 996 miles, in an hour 750,  
and in a minute 12 miles and an half.  
**Jupiter**  
Is one time lesser than the Earth.  
Is direct in motion till Lady day, March 25 then Retrograde  
till the 27 of July, and then direct to the years end.  
Is a morning Star till the 25 of May, from thence an even-  
ing star to the 12 of Decemb. and then a morning  
star to the years end.  
Is the next Planet below Jupiter.  
Maketh but one Revolution about the Sun in one year 321  
days, 22 hours, and 20 min.  
Is distant from the Sun 7 millions, 635 thousand 292 miles.  
His proper motion in one day, is 31 min. 27 seconds.  
**Mars**  
Moveth in one day 69 thousand 842 miles, in an hour 2943  
miles, and 45 miles and an half in a minute.  
Is less than the Earth 146 times.  
Is direct in motion all this year  
Is an evening star till the 16 of Octob. and then a morning  
star to the end of the year.

These three Superior Planets, Saturn, Jupiter, and Mars, being placed without the Perimeter of the Earths Orbe, are sometimes in *Conjunction* with the Sun, and sometimes in *Quadrant Aspect*, which the inferior Planets Venus & Mercury cannot be, in regard that their Orbs are included in the Earths Ellipsis. Now

*The Earth,*

(According to the Copernican System) is placed in the midst of the Planets, between the Orbs of Mars and Venus, and the

Maketh her Revolution about the Sun in 365 days, 5 hours 45 minutes.

Is distant from the Sun 5 millions 21 thousand 896 miles.

Her diurnal motion is 59 min. 8 seconds.

Her motion in one day is 86 thousand 418 miles, in one hour 3600 miles, and in a minute 60 miles.

Is less than the Sun 333 times, and greater than the Moon 45 times.

Her diameter is 6872 miles.

Her semidiameter 3436 miles.

Her circumference or compass is 21 thousand 600 miles.

Her superficies with the water, contains 148 millions 450 thousand 906 square miles.

Her whole body contains of Solid Earth and Water 510 millions of millions, 131 millions, 305 thousand, 795 miles square as a die.

Is the fountain of Light.

Is placed in the middle or center of the Copernican Planetary System.

Performs his Revolution upon his proper Axis in 26 days, or thereabouts, as the best Telescopes do discover.

Maketh her Revolution in 224 days.

Is distant from the Sun 3 millions 636 thousand 104 miles.

Her diurnal motion is 1 deg. 36 min. 8 seconds.

Moveth in one day 101712 miles, in an hour 4258 miles, and in a minute 70 miles.

Is less than the Earth 147 times.

Her greatest distance from the Sun is not less than 45 deg. and never full 48 deg.

Is

Venus

Is direct till the 6 of January, thence Retrograde to the 16 of February, and then direct to the years end.

Is an Evening star till January 27. and after that a Morning star to the 10 of November, and then an Evening star to the years end.

Performeth her course in 88 days.

Her diurnal motion is 4 deg. 5 m. 32 seconds.

Moves in one day. 137041 miles, in an hour 5710 miles, and in one min. 95 miles.

Is less than the Earth 3000 times.

Her greatest Elongation from the Sun is between 17 and 29 deg.

Mercury

Is direct from Jan. 1, to March 27, thence Retrograde to April 21, thence direct to August 1, thence Retrograde to Aug. 23, thence direct to Nov. 21. thence Retrograde to Decemb. 9. and thence direct to the end of the year.

Is morning star till Jan. 27. thence evening star till Feb. 21, and so changes several times in the year, but in regard he is seldom to be seen, I shall not trouble my self to give you the times of her Orientality or Occidentality.

The Moon

Performs her Revolution in 27 days, 7 hours, 43 min.

Is distant from the Earth 203 thousand 236 miles.

Her diurnal motion is 15 deg. 10. m. 35 seconds.

She moveth in a day 46757 miles, in an hour 1948 miles, and in a minute 32 miles and an half.

Is lesser then the Sun 15 thousand 924 times, and less then the Earth 45 times.

The truth of these things are well known to the learned in Astronomy, and although they may seem incredible to the unlearned, yet if they would but study the Theories of the Planets, they Would easily be convinced.



*A Table shewing the SUNS declination for every second day of this year, 1675. to be used with the Dial following.*

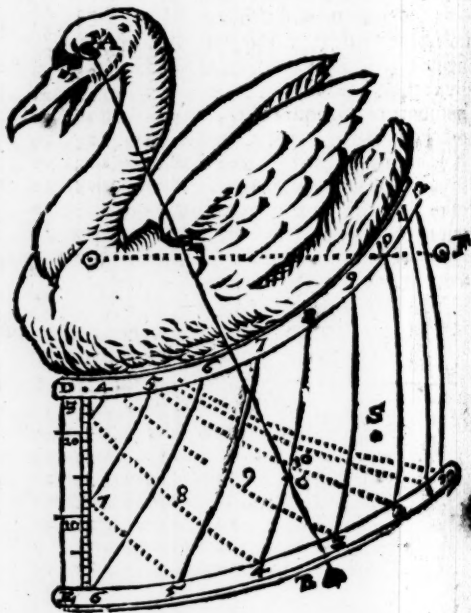
Day	Januar.		Februa.		March		Apr.		May		June	
	d	m	d	m	d	m	d	m	d	m	d	m
1	21	48	13	54	3	33	8	25	18	0	23	11
3	21	28	13	13	2	45	9	12	18	30	23	18
5	21	7	12	33	1	58	9	56	18	59	23	24
7	20	43	11	51	1	10	10	38	19	27	23	29
9	20	18	11	8	0	23	11	20	19	53	23	31
11	19	51	10	24	0	N	24	12	0	10	18	32
13	19	23	9	41	1	12	12	41	20	41	23	30
15	18	54	8	56	1	59	13	20	21	4	23	28
17	18	23	8	11	2	46	13	58	21	24	23	25
19	17	51	7	25	3	33	14	36	21	44	23	19
21	17	18	6	40	4	19	15	13	22	0	23	12
23	16	43	5	53	5	6	15	49	22	17	3	3
25	16	7	5	6	5	52	16	23	22	32	24	52
27	15	31	4	19	6	37	16	57	22	45	22	40
29	14	43	3	7	7	24	17	29	22	57	22	26
31	14	14	2	8	8	6	23	23	23	7	23	23

D	July		August		Sept.		Octob.		Novem		Decem.	
	d	m	d	m	d	m	d	m	d	m	d	m
1	22	1	15	16	1	33	7	6	17	34	23	7
3	21	54	14	43	3	47	8	52	18	6	23	16
5	21	36	14	6	3	0	8	37	18	58	23	22
7	21	16	13	27	2	14	9	21	19	8	23	28
9	20	55	12	48	1	28	10	5	19	39	23	31
11	20	33	12	9	2	40	10	48	20	4	23	32
13	20	9	11	28	0	S	7	31	20	29	23	31
15	19	43	10	47	0	54	12	13	20	53	23	29
17	19	17	10	51	1	41	12	5	21	16	23	24
19	18	49	9	23	2	28	13	34	21	37	23	17
21	18	34	8	39	3	15	14	14	21	57	23	9
23	18	20	7	55	4	2	14	53	22	14	22	59
25	17	49	7	11	4	48	15	30	22	30	22	47
27	17	18	6	26	5	34	16	7	22	44	22	33
29	16	45	5	41	5	21	16	43	22	75	22	17
31	16	11	4	55	—	—	17	17	—	—	22	0

Bowker, 1675.

The Description and Use of a small portable Instru-  
ment. for the exact and ready finding of the hou-  
of the Day any time of the Year.



**I**N the Centre of the Instrument as at A. there is a fine  
Silk String fastned, having at the other end thereof a  
small Plummet of brals or lead, noted with B. and upon  
the same string must be a small Bead or Pins-bead, as is sig-  
nified

nished by C. which bead must be to slip up and down the string at pleasure--- by the side of the Instrument, towards the left hand, there is a short line numbered by 5. 10. 15. 20. 23. representing the 23 deg. and a half of the *Suns declination*, and this line is noted with the Letters D. E--- at the bottome, and also about the middle of the Instrument, are made two *Margins*, in the uppermost is set the figures. 4. 5. 6. 7. 8. 9. 10. 11. 12. and in the undermost *Margine* these figures. 5. 4. 3. 2. 1. 12. which figures are the numbers of the hours of the Day, and the slope lines drawn from figure to figure are the hour-lines belonging to those numbers, as the slope-line noted at each end with 12, is the hour line of 12. the next slope-line noted with 11 in the upper *margin*, and with 1 in the lower *margin*, is the hour line of 11 and 1. signifying 11 a Clock in the fore-noon, and 1 a clock in the afternoon. So the next line noted with 10 and 2 represents the hours of 10 in the fore-noon, and of 2 in the afternoon: these slope lines bend like a bow from the right hand towards the left, and are drawn with a full line thus, — and these are called (for distinction) the *Summer bow lines*, and are in use from the 10 of *March*, till the 12 of *sept*. The other lines which bend like a Bow from the left hand towards the right, are described by pricked lines thus, ..... and figured at each end thereof, as the other bow-lines were, and these are called the *Winter bow lines*, and are in use from the 12 of *Septemb*. till the 10 of *March*; at the Point ☉ is made a small hole, into which you are to stick a small pin when you would know the hour.

*The manner how to use the Instrument.*

When you would know the hour of the day by the Instrument, lay the thred upon the line of declination noted with D.E. and knowing what declination the ☉ hath by the

Bowker, 1675.

the former Table, move the Bead which is upon the third unto that degree of declination which the Sun hath, and so is the Bead fitted for all that day. The Bead being thus rectified, and a pin being put in the little hole at  $\odot$ , hold the Instrument in both your hands, turning your left side to the Sun, and move the Instrument up and down, till the pin which is in  $\odot$ , do cast it's shadow upon the point F. the string playing easily by the plain of the Instrument, and where the Bead rests, that shews the hour of the day.

Now suppose that upon the 5<sup>th</sup>. day of April, when the Sun hath about 10 deg. of Declination, having brought the Bead to that place, and set a pin in the hole at  $\odot$ , and held the Instrument up till the shadow of the pin fell upon the point at F. you should find the Bead to rest at the point G. which is just upon the hour-line which is noted with 8 and 4, the Bead then tells you that it is either 8 of the clock in the Forenoon, or 4 of the clock in the Afternoon; and which of those hours it is, is easy to distinguish. In like manner, if it should fall upon the line noted with 10 and 2, it is either 10 in the Forenoon, or 2 in the Afternoon. Again, if the Bead should rest at B, it were then either half an hour after 9 in the Forenoon, or half an hour after 2 in the Afternoon. The use is very easy; But, *Ufus optimus Magister.*

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F I N I S.